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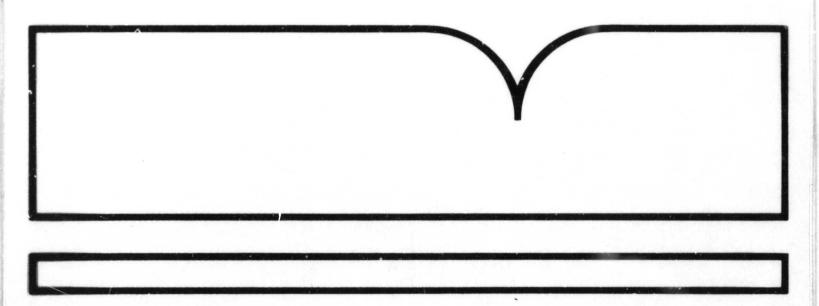
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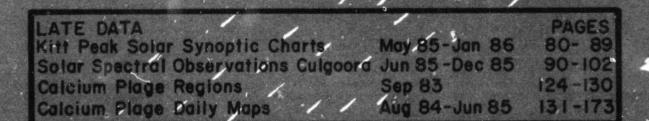
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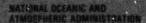
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Solar - Geophysical Data

NO. 499 MARCH 1986

Part I (Prompt Reports)

DATA FOR FEBRUARY 1986 JANUARY 1986

Michael A. Chinnery, Director NATIONAL GEOPHYSICAL DATA CENTER BOULDER, COLORADO

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| 35 | 04 | 03 | 070 | 099 | 006 | S08E24 S02W58 S02E70 | 7 1 2 | 1 0 0 | 0 | PRESTO TENFLARE 210 FLUX UNITS 02/2040 UT IN PROGRESS | 04 | S08E24 S02W58 S02E70 | | SOLALERT 04/06 MAGQUIET |
| 036 | 05 | 04 | 073 | 101 | 005 | S07E10 S04W73 S02E54 | 0 | 0 0 1 | ^ | PRESTO XRAY EVENT X3/3B S03E21 04/0735 UT DURATION 12 MINUTES TENFLARE 820 FLUX UNITS 04/0734 UT DURATION 23 MINUTES TENFLARE 1200 FLUX UNITS 04/0734 UT DURATION 20 MINUTES TENFLARE 250 FLUX UNITS 04/1023 UT DURATION 13 MINUTES TENFLARE 100 FLUX UNITS 04/0640 UT DURATION 20 MINUTES | | COALIZZ | ^ | SOLALERT 05/07 MAJOR FLAR ALERT 05/0 21007 PROTON FLARE ALER 05/07 2100 MAGALERT 06/07 FLAR |
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| | | | HE GEO | | | | | | | EBRUARY 1986 | | | | |
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| 060 | 01 | 28 | 023 | 079 | 015 | N02W33 S00E85 | 0 | 0 | 0 | | | N02W33 S00E85 | Q E | SOLQUIET MAGALERT 01/02 DISAPPEARING FILAMENT |

NO=MESSAGE SERIAL NUMBER, DI=DATE OF ISSUE, DO=DATE OF OBSERVATION, WOLF=WOLF NUMBER, 10CM=10CM SOLAR FLUX, A=A INDEX, LOC=LOCATION LATITUDE AND LONGITUDE, TOT=TOTAL NUMBER OF FLARES, M=NUMBER OF M FLARES, X=NUMBER OF X FLARES, DA=DATE OF FORECAST, DE=DESCRIPTION, Q=QUIET, E=ERUPTIVE, A=ACTIVE, P=PROTON.

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS) FEBRUARY 1986

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PRESTO BOULDER 02/2105 UT TENFLARE 210 FLUX UNITS 02/2040 UT IN PROGRESS
PRESTO TOYOKAWA 04/0840 UT TENFLARE 100 FLUX UNITS 04/0640 UT DURATION 20 MINUTES
PRESTO TOYOKAWA 04/0840 UT TENFLARE 1200 FLUX UNITS 04/0734 UT DURATION 20 MINUTES
PRESTO BOULDER 04/0943 UT X-RAY EVENT X3/3B S03E21 04/0735 UT DURATION 12 MINUTES
PRESTO BOULDER 04/1300 UT TENFLARE 820 FLUX UNITS 04/0734 UT DURATION 23 MINUTES
PRESTO BOULDER 04/1320 UT TENFLARE 250 FLUY UNITS 04/1023 UT DURATION 13 MINUTES
PRESTO TOYOKAWA 05/0140 UT TENFLARE 260 FLUX UNITS 05/0040 UT DURATION 25 MINUTES
PRESTO BOULDER 06/0154 UT STRONG MAGSTORM IN PROGRESS 06/0112 UT
PRESTO SYDNEY 06/0645 UT SOFLARE CULGOORA 2B FLARE MAX TIME 06/0629 UT IN PROGRESS
PRESTO TOYOKAWA 06/0742 UT TENFLARE 1990 FLUX UNITS 06/0615 UT DURATION 70 MINUTES
PRESTO BOULDER 06/0801 UT TENFLARE 1300 FLUX UNITS 06/0618 UT DURATION 45 MINUTES
PRESTO BOULDER 06/0801 UT X-RAY EVENT X1/3B S04W06 06/0618 UT DURATION 49 MINUTES
PRESTO BOULDER 06/1048 UT PROTON EVENT 11 P/CM2/SEC/STER>10 MEV BEGAN 06/0910 UT IN PROGRESS
PRESTO MOSCOW 07/1120 UT TENFLARE 1100 FLUX UNITS 07/1013 UT IN PROGRESS
PRESTO BOULDER 07/1215 UT TENFLARE 4100 FLUX UNITS 07/1012 UT DURATION 39 MINUTES
PRESTO KAKIOKA 08/0000 UT MAGSTORM BEGINS 06/1312 UT
PRESTO BOULDER 08/0554 UT STRONG MAGSTORM IN PROGRESS 08/0600 UT
PRESTO BOULDER 10/2310 UT TENFLARE 740 FLUX UNITS 10/2020 UT DURATION 27 MINUTES
PRESTO BOULDER 13/2333 UT TENFLARE 110 FLUX UNITS 13/2315 UT DURATION 2 MINUTES
PRESTO TOYOKAWA 14/0005 UT TENFLARE 130 FLUX UNITS 13/2315 UT DURATION 4 MINUTES
PRESTO BOULDER 14/1004 UT TENFLARE 2400 FLUX UNITS 14/0906 UT IN PROGRESS
PRESTO BOULDER 14/1335 UT PROTON EVENT 10 P/CM2/SEC/STER>10 MEV BEGAN 14/1200 UT IN PROGRESS
PRESTO BOULDER 15/1215 UT TENFLARE 2300 FLUX UNITS 15/1109 UT IN PROGRESS
PRESTO BOULDER 15/1355 UT TENFLARE 290 FLUX UNITS 15/1204 UT DURATION 63 MINUTES
PRESTO BOULDER 16/2230 UT TENFLARE 140 FLUX UNITS 16/2231 UT DURATION 20 MINUTES
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STRATWARM MESSAGES FOR FEBRUARY 1986

STRATWARM ALERT /THURSDAY/ STRONG WARMING AT 10 HPA OVER THE USSR FROM THE URAL REGION TO CENTRAL SIBERIA AROUND AND NORTH OF 60 NORTH WITH TEMPERATURE INCREASE MORE THAN 40 DEGREES THE LAST WEEK.
STRATWARM ALERT /FRIDAY/ WARMING OVER CENTRAL SIBERIA INTENSIFYING. POLAR VORTEX MOVING TOWARDS GREENLAND IN UPPER STRATOSPHERE.
STRATWARM ALERT /SUNDAY/ INTENSE WARMING OVER SIBERIA CONNECTED WITH TEMPERATURE INCREASE OVER THE POLAR REGION AND SPLIT OF THE POLAR VORTEX IN THE LOWER STRATOSPHERE. MEAN ZONAL FLOW THROUGHOUT THE WHOLE

STATOSPHERE AT 60 NORTH STILL FROM THE WEST.
STRATWARM ALERT /MONDAY/ INTENSE WARMING OVER SIBERIA CONNECTED WITH TEMPERATURE INCREASE OVER THE POLAR

REGION CONTINUES. TEMPERATURE GRADIENT REVERSED BETWEEN 60 NORTH AND THE POLE AT 10 MB TODAY. STRATWARM ALERT /TUESDAY/ INTENSE WARMING OVER SIBERIA AND THE POLAR REGION CONTINUES. TEMPERATURE GRADIENT REVERSED BETWEEN THE POLE AND 60 NORTH IN THE UPPER AND MIDDLE STRATOPSHERE DOWNWARDS TO 30 MB. AT THE 1 MB LEVEL, MEAN ZONAL WIND AT 60 NORTH STRONGLY WEAKENED DURING THE LAST DAYS.

STRATWARM ALERT /WEDNESDAY/ THE POLAR REGION, ALASKA, AND NORTHWEST, AND NORTH CANADA SLOWLY WEAKENING, TEMPERATURE GRADIENT REVERSED BETWEEN THE POLE AND 60 NORTH IN THE UPPER AND MIDDLE STRATOSPHERE DOWNWARDS TO 30 HPA. AT THE 1 MB LEVEL, MEAN ZONAL WIND ALSO BETWEEN THE POLE AND 60 NORTH.

STRATWARM ALERT /THURSDAY/ WARMING OVER SIBERIA, ALASKA, CANADA, AND THE POLAR REGION CONTINUOUSLY WEAKENING. COOLING OVER EUROPE INTENSIFYING. TEMPERATURE GRADIENT REVERSED BETWEEN THE POLE AND 60 NORTH IN THE UPPER AND MIDDLE STRATOPSHERE. AT THE 1 MB LEVEL, THE MEAN ZONAL WIND AT 60 NORTH IS FROM THE EAST.

STRATWARM ALERT /FRIDAY/ WARM EVENT OVER POLAR LATITUDES TERMINATED. SLOW RETURN TO NORMAL MERIDIONAL TEMPERATURE GRADIENT BETWEEN THE POLE AND 60 NORTH EXPECTED DURING THE NEXT DAYS.

| | 1985 F | inal | | | | | | | | | 1986 P | rov |
|------|--------|------|-----|-----|------|-----|-----|-----|-----|-----|--------|-----|
| Day | Mar | Apr | May | Jun | Ju I | Aug | Sep | 0c† | Nov | Dec | Jan | Feb |
| 01 | 13 | 25 | 19 | 10 | 21 | 35 | 7 | 0 | 0 | 0 | 0 | 18 |
| 02 | 13 | 21 | 15 | 0 | 27 | 25 | 0 | 0 | 0 | 16 | 0 | 31 |
| 03 | 9 | 23 | 14 | 11 | 30 | 27 | 0 | 0 | 0 | 13 | 0 | 57 |
| 04 | 0 | 17 | 18 | 26 | 32 | 27 | 0 | 0 | 0 | 0 | 0 | 58 |
| 05 | 0 | 23 | 16 | 35 | 38 | 20 | 3 | 0 | 16 | 18 | 0 | 53 |
| 06 | 0 | 19 | 14 | 37 | 43 | 14 | 0 | 0 | 19 | 26 | 0 | 47 |
| 07 | 0 | 11 | 32 | 38 | 71 | 12 | 0 | 0 | 19 | 15 | 0 | 52 |
| 08 | 14 | 9 | 44 | 42 | 67 | 12 | 0 | 0 | 18 | 12 | 0 | 54 |
| 09 | 15 | 9 | 56 | 42 | 82 | 17 | 0 | 0 | 25 | 16 | 0 | 47 |
| 10 | 13 | 0 | 49 | 58 | 82 | 12 | 0 | 0 | 15 | 15 | 0 | 37 |
| 11 | 16 | 0 | 49 | 66 | 61 | 12 | 7 | 0 | 17 | 18 | 0 | 37 |
| 12 | 18 | 0 | 33 | 54 | 45 | 12 | 0 | 0 | 19 | 19 | 0 | 25 |
| 13 | 14 | 0 | 32 | 45 | 25 | 0 | 9 | 11 | .30 | 18 | 13 | 22 |
| 14 | 10 | 10 | 32 | 36 | 9 | 0 | 9 | 13 | 44 | 30 | 14 | 16 |
| 15 | 0 | 0 | 32 | 37 | 8 | 0 | 9 | 15 | 48 | 47 | 12 | 11 |
| 16 | 11 | 0 | 31 | 27 | 9 | 14 | 9 | 25 | 39 | 66 | 8 | 0 |
| 17 | 20 | 0 | 38 | 23 | 11 | 12 | 8 | 19 | 43 | 63 | 0 | 0 |
| 18 | 35 | 10 | 41 | 18 | 11 | 11 | 10 | 20 | 37 | 52 | 0 | 0 |
| 19 | 27 | 9 | 40 | 10 | 11 | 12 | 10 | 31 | 30 | 40 | 0 | 0 |
| 20 | 19 | 11 | 37 | 9 | 11 | 10 | 9 | 44 | 28 | 24 | 0 | 10 |
| 21 | 9 | 17 | 36 | 9 | 10 | 9 | 8 | 50 | 18 | 17 | 0 | 10 |
| 22 | 15 | 31 | 34 | 9 | 10 | 0 | 7 | 72 | 12 | 11 | 0 | 10 |
| 23 | 22 | 28 | 32 | 12 | 18 | 0 | 0 | 67 | 10 | 0 | 0 | 11 |
| 24 | 36 | 30 | 25 | . 3 | 12 | 0 | 0 | 63 | 0 | 0 | 0 | 8 |
| 25 | 30 | 37 | 19 | 12 | 10 | 0 | 0 | 55 | 0 | 0 | 0 | 11 |
| 26 | 33 | 37 | 13 | 10 | 13 | 8 | 0 | 40 | 0 | 0 | 7 | 11 |
| 27 | 27 | 31 | 12 | 8 | 12 | 8 | 0 | 27 | 0 | 0 | 0 | 15 |
| 28 | 36 | 27 | 12 | 8 | 36 | 10 | 0 | 14 | 0 | 0 | 0 | 10 |
| 29 | 25 | 26 | 10 | 9 | 51 | 9 | 7 | 11 | 0 | 0 | 0 | |
| 30 | 29 | 26 | 8 | 11 | 46 | 8 | 7 | 0 | 0 | 0 | 8 | |
| 31 | 23 | | 8 | | 40 | 9 | | 0 | | 0 | 8 | |
| Mean | 17 | 16 | 28 | 24 | 31 | 11 | 4 | 19 | 16 | 17 | 2 | 24 |

The yearly mean sunspot number equaled 17.9 in 1985.

DAILY SOLAR FLUX AT 2800 MHz (10.7 CM) ADJUSTED TO 1 AU

ALGONQUIN RADIO OBSERVATORY, OTTAWA

| Day | Mar 85 | Apr | May | Jun | Ju I | Aug | Sep | 0c† | Nov | Dec | Jan 86 | Feb |
|------|-------------------|-------|-------|------|--------|------|------|-------|-------|-------|--------|-------|
| 01 | 69.3 | 72.2 | 80.6* | 69.5 | 76.9 | 80.5 | 73.0 | 68.3 | 69.0 | 67.8 | 67.0 | 81.8 |
| 02 | 69.1 | 72.6 | 76.5 | 72.4 | 79.1* | 80.4 | 72.8 | 67.5 | 68.8 | 68.4 | 67.6 | 86.4* |
| 03 | 69.0 | 72.5A | 72.6 | 74.6 | 81.3 | 79.2 | 73.1 | 68.7 | 68.0 | 68.5 | 68.4 | 96.0 |
| 04 | 68.6 | 71.9 | 70.8 | 77.5 | 80.4 | 79.3 | 73.5 | 68.3 | 67.6 | 68.3 | 69.5 | 97.8* |
| 05 | 67.5 | 71.2 | 71.4 | 84.3 | 83.3 | 78.5 | 72.2 | 67.0 | 68.5 | 69.7 | 70.7 | 99.8 |
| 06 | 68.1 | 70.5 | 75.0 | 87.4 | 87.5 | 77.9 | 72.5 | 66.0 | 70.0 | 71.1 | 72.2 | 99.0 |
| 07 | 68.0 | 79.3 | 79.1 | 88.4 | 97.7 | 79.5 | 70.8 | 65.9 | 71.8 | 71.9 | 71.6 | 96.7 |
| 08 | 68.7 | 61.9 | 83.7 | 88.9 | 96.7* | 78.5 | 70.3 | 65.8 | 73.7 | 73.0 | 71.2 | 94.3* |
| 09 | 68.7 | .4 | 89.6 | 89.8 | 100.9* | 74.9 | 70.6 | 66.0 | 72.9 | 75.2 | 72.7 | 92.5 |
| 10 | 68.0 | 63.7 | 91.7 | 91.7 | 104.6* | 72.8 | 70.3 | 66.7 | 72.5 | 75.6 | 72.2 | 93.4* |
| 11 | 69.5 | 69.0 | 89.9 | 91.2 | 97.3 | 68.4 | 69.2 | 67.7 | 74.7 | 76.6 | 71.9 | 95.1 |
| 12 | 69.3 | 69.6 | 92.1 | 89.8 | 92.9 | 69.7 | 68.5 | 66.9 | 74.7 | 77.3 | 71.2 | 88.4 |
| 13 | 69.5 | 69.8 | 91.9 | 89.2 | 85.5 | 68.9 | 70.7 | 66.7 | 74.3 | 75.6 | 74.3 | 86.4 |
| 14 | 69.5 | 70.6 | 90.7* | 85.3 | 76.4 | 69.3 | 70.4 | 69.8 | 76.9 | 76.4 | 76.4 | 86.2* |
| 15 | 69.6 | 70.0 | 92.0* | 83.8 | 73.0 | 69.0 | 71.1 | 71.7 | 82.2* | 80.2 | 75.1 | 79.6 |
| 16 | 70.1 | 69.4 | 95.5 | 80.9 | 71.9 | 68.2 | 70.3 | 73.2 | 78.8 | 83.7 | 75.5* | 71.2 |
| 17 | 72.1 | 70.2 | 92.3 | 77.3 | 71.9 | 67.9 | 70.0 | 75.5 | 77.4 | 80.2 | 74.4 | 68.3 |
| 18 | 74.6 | 71.7 | 92.7 | 73.8 | 71.8 | 68.6 | 70.4 | 75.5 | 77.3 | 78.4 | 73.1 | 68.7 |
| 19 | 74.2 | 71.7 | 89.6 | 72.2 | 71.7 | 69.1 | 70.7 | 77.7 | 75.6 | 77.5 | 70.2 | 68.1 |
| 0 | 74.2 | 72.3 | 86.7 | 71.9 | 71.7 | 70.6 | 69.8 | 79.4 | 75.7 | 75.4* | 69.2 | 68.1 |
| 21 | 76.1* | 77.9 | 84.4* | 71.5 | 71.2 | 70.4 | 69.6 | 84.7 | 73.7 | 75.1 | 67.9 | 66.0 |
| 22 | 75.9 | 89.8 | 82.7* | 71.6 | 71.0 | 72.7 | 69.8 | 94.3 | 73.1 | 73.5 | 67.3 | 67.7 |
| 23 | 77.3 | 93.3* | 80.0 | 71.8 | 71.1 | 72.9 | 69.2 | 93.2* | 72.8 | 71.2 | 67.0 | 67.7 |
| 24 | 79.6 | 89.0* | 78.3 | 70.8 | 71.0 | 72.1 | 69.0 | 92.5 | 71.9 | 69.9 | 66.9 | 68.6 |
| 25 | 78.5 | 95.2 | 77.2 | 71.0 | 75.6 | 72.5 | 68.7 | 88.5* | 70.3 | 67.3 | 68.0 | 70.1 |
| 26 | 79.7 [†] | 88.3* | 75.5 | 70.0 | 77.4 | 72.3 | 68.4 | 83.0 | 69.5 | 66.3 | 67.7 | 72.0 |
| 27 | 77.4 | 80.6 | 74.6 | 70.2 | 79.2 | 73.1 | 67.7 | 78.5* | 69.8 | 66.2 | 67.2 | 75.2 |
| 28 | 77.7 | 78.1 | 72.7 | 71.0 | 81.2 | 73.1 | 67.8 | 76.7 | 69.0 | 66.2 | 70.0 | 77.0 |
| 29 | 76.7 [†] | 83.2 | 72.5 | 72.3 | 83.5 | 73.1 | 68.3 | 73.6 | 69.1 | 66.0 | 71.2 | |
| 30 | 75.8 [†] | 80.8 | 71.4 | 74.8 | 83.8 | 73.9 | 68.3 | 70.5 | 68.8 | 66.3 | 73.7 | |
| 31 | 76.4 [†] | | 69.6 | | 82.4 | 74.1 | | 69.5 | | 66.6 | 76.6 | |
| Mean | 72.5 | 75.7 | 82.0 | 78.5 | 81.3 | 73.3 | 70.2 | 74.2 | 72.6 | 72.4 | 70.9 | 81.5 |

A = interpolated value; --- = no observation. *Adjusted for burst in progress at time of measurement; †corrected for antenna drift. The yearly mean 2800 MHz flux adjusted to 1 astronomical unit equaled 74.7 in 1985.

February 1986

| | | Bartels | Sun | spot | Obs Flux | | Solar | Flux A | iusted | to 1 As | stronom | ical Ur | nit | |
|------|----------|----------|-----|------|----------|---------|-------|--------|--------|---------|---------|---------|-------|-------|
| J | ulian | Cycle | | bers | Ottawa | SGMR | SGMR | SGMR | Ottawa | SGMR | SGMR | SGMR | SGMR | SGMR |
| - | Day | Day | int | Amer | (2800) | (15400) | | | | (2695) | (1415) | (610) | (410) | (245) |
| 01 | 32 | 1 | 18 | 18 | 84.2 | 568 | 290 | 108 | 81.8 | 77 | 68 | 50 | 26 | 1 |
| 02 | 33 | 2 | 31 | 33 | 89.0* | 552 | 318 | 111 | 86.4* | | 74 | 52 | 25 | í |
| 03 | 34 | 3 | 57 | 56 | 98.9 | | | | 96.0 | | | | | |
| 04 | 35 | 4 | 53 | 59 | 100.6* | 556 | 334 | 136 | 97.8* | | 72 | 59 | 39 | 32 |
| 05 | 36 | 5 | 53 | 52 | 102.7 | 443 | 296 | 129 | 99.8 | 89 | 74 | 58 | 41 | 47 |
| - | | | | | | | | | | | | | | |
| 06 | 37 | 6 | 47 | 48 | 101.9 | 568 | 329 | 120 | 99.0 | 95 | 76 | 58 | 33 | 79 |
| 07 | 38 | 7 | 52 | 50 | 99.4 | 568 | 3.28 | 124 | 96.7 | 90 | 73 | 60 | 26 | 61 |
| 08 | 39 | 8 | 54 | 53 | 96.9* | 564 | 313 | 106 | 94.3* | 91 | 75 | 60 | 24 | 11 |
| 09 | 40 | 9 | 47 | 49 | 95.1 | | | | 92.5 | | | | | |
| 10 | 41 | 10 | 37 | 38 | 95.9* | 566 | 330 | 109 | 93.4* | 91 | 71 | 65 | 37 | 56 |
| 11 | 42 | 11 | 37 | 36 | 97.6 | 558 | 321 | 128 | 95.1 | 89 | 70 | 56 | 23 | 21 |
| 12 | 43 | 12 | 25 | 26 | 90.8 | 573 | 314 | 118 | 88.4 | 85 | 70 | 59 | 31 | 41 |
| 13 | 44 | 13 | 22 | 22 | 88.6 | 567 | 326 | 118 | 86.4 | 83 | 67 | 54 | 23 | 29 |
| 14 | 45 | 14 | 16 | 17 | 88.4* | 573 | 316 | 119 | 86.2* | 84 | 68 | 59 | 25 | 18 |
| 15 | 46 | 15 | 11 | 10 | 81.6 | 569 | 306 | 98 | 79.6 | 78 | 61 | 51 | 21 | 14 |
| 16 | 47 | 16 | 0 | 1 | 72.9 | 488 | 297 | 98 | 71.2 | 68 | 55 | 49 | 20 | 8 |
| 17 | 48 | 17 | 0 | ó | 70.0 | 510 | 291 | 100 | 68.3 | 64 | 53 | 45 | 20 | 12 |
| 18 | 49 | 18 | 0 | 0 | 70.3 | 492 | 281 | 90 | 68.7 | 63 | 52 | 44 | 20 | 11 |
| 19 | 50 | 19 | 0 | ő | 69.7 | 532 | 297 | 97 | 68.1 | 64 | 51 | 41 | 20 | 12 |
| 20 | 51 | 20 | 10 | 10 | 69.6 | 550 | 292 | 91 | 68.1 | 64 | 53 | 46 | 19 | 12 |
| 21 | =2 | 21 | 10 | 11 | 67.5 | 469 | 282 | 98 | 66.0 | 64 | 52 | 46 | 19 | 12 |
| 21 | 52 53 | 22 | 10 | 10 | 69.2 | 409 | | 90 | 67.7 | | | | | |
| | 54 | 23 | 11 | 11 | 69.2 | 552 | 275 | 94 | 67.7 | 66 | 51 | 27 | 12 | 7 |
| 23 | - | | 8 | 9 | 70.1 | 556 | 298 | 100 | 68.6 | 64 | 52 | 36 | 14 | 8 |
| 24 | 55 56 | 24 25 | 11 | 10 | 71.5 | 564 | 301 | 95 | 70.1 | 67 | 55 | 41 | 16 | 7 |
| 25 | 20 | 25 | 11 | 10 | /1.5 | 204 | 301 | 95 | 70.1 | 67 | 23 | 41 | 10 | , |
| 26 | 57 | 26 | 11 | 12 | 73.5 | 565 | 313 | 108 | 72.0 | 72 | 56 | 44 | 20 | 13 |
| 27 | 58 | 27 | 15 | 15 | 76.7 | 564 | 309 | 106 | 75.2 | 75 | 59 | 51 | 20 | 12 |
| 28 | 59 | 1 | 10 | 11 | 78.5 | 551 | 305 | 105 | 77.0 | 74 | 60 | 51 | 22 | 12 |
| Mean | | | 24 | 24 | 83.6 | 545 | 306 | 108 | 81.5 | 78 | 63 | 50 | 23 | 33 |

^{*}Adjusted for burst in progress at time of measurement.

The observed and the adjusted Ottawa fluxes tabulated above are the "Series C" daily values reported by the Algonquin Radio Observatory, Ottawa, Ontario, Canada. The letter "A" following an entry designates an interpolated flux. Numbers in parentheses in the column headings denote frequencies in MHz.

Equipment problems produced the gaps shown here in the Air Weather Service's Sagamore Hill (SGMR) observations.

The International and American sunspot numbers shown above are preliminary values.

FEBRUARY 1986

| | Internat | .ional | TIVE SUNSP | OT NUMBERS | Der | ived | 2800 MHz Adjuste | RADIO FLUX d to 1 AU |
|--|--|--|--|--|--|--|--|--|
| Date | | ncothed | (R Monthly Mean | a) Smoothed | Monthly Mean | Smoothed | Monthly | Sa) Smoothed |
| Apr 82 May Jun Jul Aug Sep Oct Nov Dec | 122.0 82.2 110.4 106.1 107.6 118.8 94.7 98.1 | 124 120 117 115 109 101 96 95 95 | 82.6 113.5 113.3 110.5 117.8 | 124 120 118 117 111 103 97 95 95 | 113.9 97.7 129.6 116.0 123.9 118.5 111.8 114.8 146.7 | 134 129 127 125 120 112 106 103 101 | 162.9 147.9 177.4 164.8 172.1 167.1 160.9 163.7 193.2 | 182 177 175 174 168 161 155 153 |
| Jan 83 Feb Mar May Jun Jul Aug Sep Oct Nov Dec | 84.3 51.0 66.5 80.7 99.2 91.1 82.2 71.8 50.3 55.8 33.3 | 93 90 86 82 77 70 66 66 68 68 59 64 | 82.8 53.4 60.5 74.5 97.7 93.1 82.2 69.2 47.4 52.3 30.2 32.3 | 93 90 85 81 77 69 63 63 66 66 65 62 | 86.7 67.2 64.7 67.5 86.1 92.4 77.4 75.7 57.0 58.6 35.6 35.7 | 98 94 90 85 80 72 66 66 67 67 67 | 137.7 119.6 117.3 119.9 137.1 143.0 129.1 127.5 110.2 111.7 90.4 90.5 | 148 145 141 136 131 124 118 118 119 120 120 |
| Jan 84 Feb Mar Apr Jun Jul Aug Sep Oct | 57.0 85.4 83.5 69.7 76.4 46.1 37.4 25.5 15.7 12.0 22.8 18.7 | 60 56 53 50 48 46 44 40 34 29 25 22 | 54.4 81.5 83.0 66.5 72.1 45.2 36.2 24.5 13.6 9.8 19.4 17.0 | 58 54 51 48 45 44 42 38 32* 27* 23* 20* | 59.4 86.2 68.5 78.1 79.6 49.8 37.6 30.7 23.2 16.9 18.6 17.4 | 61 58 55 52 49 48 39 41 35 31 26 23 | 112.4 137.2 120.8 129.7 131.1 103.5 92.2 85.8 78.9 73.1 74.6 73.5 | 115 101 108 105 103 102 99 95 90 86 72 79 |
| Jan 85 Feb Mar Apr Jun Jul Aug Sep Oct Nov Dec | 27.5 24.2 | 20 20 19 18 18 18 17* 17* 16(2)* 15(4)* 14(5)* 13(5)* | 14.5 16.3 11.8* 17.1* 24.0* 22.2* 30.8* 10.7* 3.4* 16.5* 16.4* | 19* 18* 16* 17* 16* 16* 15* 14 13 12 11 | 15.9 15.7 16.3 19.8 26.6 22.8 25.8 17.2 13.8 18.1 16.4 16.2 | 21 20 19 19 19 19 19 19 18 17 16 15 | 72.1 71.9 72.5 75.7 82.0 78.5 81.3 73.3 70.2 74.2 72.6 72.4 | 77 76 75 75 75 75 75 75 |
| Jan 86 Feb Mar Apr May Jun Jul Aug | 2.3† 23.6† | 13(6)* 13(7)* 12(8)* 11(8)* 10(9)* 10(9)* 9(9)* | 2.3* | 11 10 10 9 | 14.6 | 15 14 14 13 12 11 11 10 | 70.9 | |

^{*}An asterisk marks either a value of the observed 12-month running mean or of a predicted 12-month average that is based ir part on preliminary observations.

Underlined entries indicate predicted values and parentheses enclose the absolute value of the 90% confidence limits. The two columns headed "Derived" represent a sunspot number computed from a linear regression equation between the 2800 MHz solar flux (adjusted to 1 astronomical unit) and the Zurich sunspot number.

FEBRUARY 1986

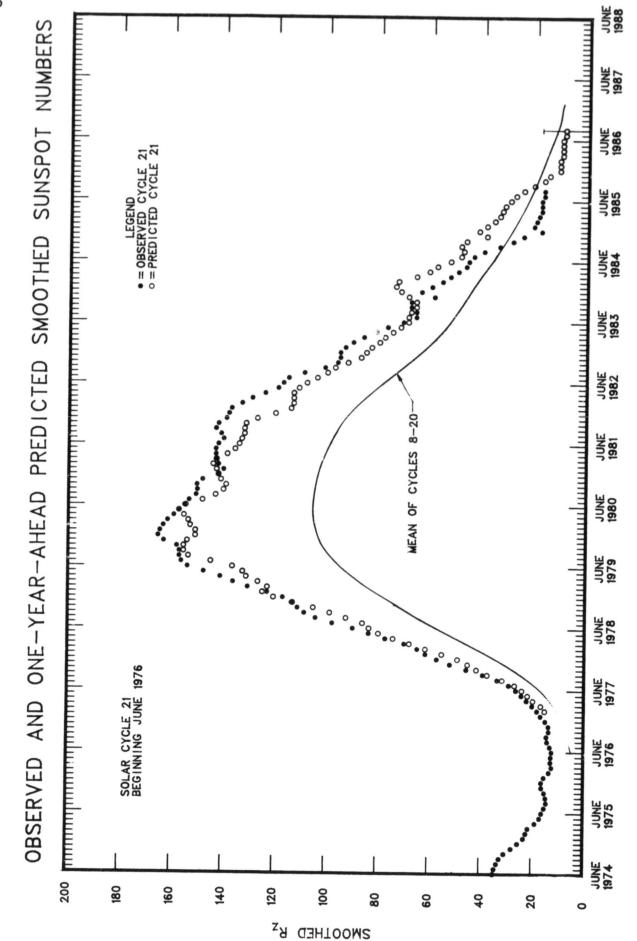
| Month | Jan | Feb | Mar | Apr | May | Jun | Ju l | Aug | Sep | 0c† | Nov | Dec |
|-------|------------|------------|------------|-----|------------|------------|-----------|-----------|------------|-------|-------|-------|
| 1976 | 15 | 13 | 12 | 13 | 13 | 12* | 13 | 14 | 14 | 13 | 14 | 15 |
| 1977 | 17 | 18 | 20 | 22 | 24 | 26 | 29 | 33 | 39 | 46 | 52 | 57 |
| 1978 | 61 | 65 | 70 | 77 | 83 | 89 | 97 | 104 | 108 | 111 | 113 | 118 |
| 1979 | 124 | 131 | 137 | 141 | 147 | 153 | 155 | 155 | 156 | 158 | 162 | 165* |
| 1980 | 164 | 163 | 161 | 159 | 156 | 155 | 153 | 150 | 150 | 150 | 148 | 143 |
| 1981 | 140 | 142 | 143 | 143 | 143 | 142 | 140 | 141 | 143 | 142 | 139 | 138 |
| 1982 | 137 | 133 | 129 | 124 | 120 | 117 | 115 | 109 | 101 | 96 | 95 | 95 |
| 1983 | 93 | 90 | 86 | 82 | 71 | 71 | 66 | 66 | 68 | 68 | 67 | 64 |
| 1984 | 60 | 56 | 53 | 50 | 48 | 47 | 44 | 40 | 34 | 29 | 25 | 22 |
| 1985 | 21 | 20 | 19 | 18 | 18 | 18 | 17 | 17 | 16 (2) | 15 | 14 | 13 |
| 1986 | 13 (6) | 13 (7) | 12 (8) | 11 | 10 (9) | 10 (9) | 9 (9) | 9 (9) | 8 (8) | 8 (8) | 8 (8) | 8 (8) |

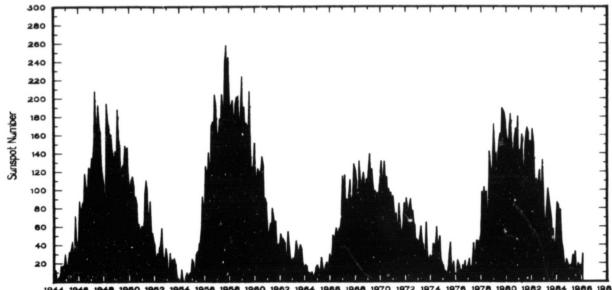
An asterisk marks the minimum and the maximum of Sunspot Cycle 21.

For the current solar cycle, this table gives observed smoothed sunspot numbers up to the one calculated from the most recently measured monthly mean. These smoothed observed values are based on final monthly mean Zurich numbers through 1980, on final international numbers through 1985, and on provisional international numbers thereafter.

The entries with numbers in parentheses below them denote predictions by the McNish-Lincomethod. (See page 9 in the May 1985 edition of the "Solar-Geophysical Data" supplement.) Adding the number in parentheses to the predicted value generates the upper limit of the 90% confidence interval; subtracting the number in parentheses from the predicted value generates the lower limit. Consider, for example, the August 1986 prediction tabulated above. There exists a 90% chance that in August 1986 the actual smoothed sunspot number will fall somewhere between 0 and 18.

THE MCNISH-LINCOLN PREDICTION METHOD GENERATES USEFUL ESTIMATES OF SMOOTHED SUNSPOT NUMBERS FOR NO MORE THAN 12 MONTHS AHEAD. Beyond a year the predictions regress rapidly toward the mean of all 13 cycles of data used in the computation. Furthermore, the method is very sensitive to the date defined as the beginning of the current sunspot cycle, that is, to the date of the most recent sunspot minimum. In "Solar-Geophysical Data," Issues 390-401, we based the current cycle predictions on March 1976 as the end of cycle 20 and the onset of the new cycle 21. Later studies, including one published by M. Waldmeier, showed that June 1976 was more appropriately the minimum epoch. We therefore generated this table using the June 1976 date.





1944 1946 1948 1960 1962 1964 1966 1968 1960 1962 1964 1966 1968 1960 1970 1972 1974 1976 1978 1980 1982 1984 1986 1988 MONTHLY MEAN SUNSPOT NUMBERS

| | | | | MON | IITLI MEA | IN SUNSPU | I NUMBER | (3 | | | | |
|------|-------|-------|-------|------------|-----------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Ju I | Aug | Sep | 0c† | Nov | Dec |
| 1944 | 3.7 | 0.5 | 11.0 | 0.3 | 2.5 | 5.0 | 5.0 | 16.7 | 14.3 | 16.9 | 10.8 | 28.4 |
| 1945 | 18.5 | 12.7 | 21.5 | 32.0 | 30.6 | 36.2 | 42.6 | 25.9 | 34.9 | 68.8 | 46.0 | 27.4 |
| 1946 | 47.6 | 86.2 | 76.6 | 75.7 | 84.9 | 73.5 | 116.2 | 107.2 | 94.4 | 102.3 | 123.8 | 121.7 |
| 1947 | 115.7 | 133.4 | 129.8 | 149.8 | 201.3 | 163.9 | 157.9 | 188.8 | 169.4 | 163.6 | 128.0 | 116.5 |
| 1948 | 108.5 | 86.1 | 94.8 | 189.7 | 174.0 | 167.8 | 142.2 | 157.9 | 143.3 | 136.3 | 95.8 | 138.0 |
| 1949 | 119.1 | 182.3 | 157.5 | 147.0 | 106.2 | 121.7 | 125.8 | 123.8 | 145.3 | 131.6 | 143.5 | 117.6 |
| 1950 | 101.6 | 94.8 | 109.7 | 113.4 | 106.2 | 83.6 | 91.0 | 85.2 | 51.3 | 61.4 | 54.8 | 54.1 |
| 1951 | 59.9 | 59.9 | 55,9 | 92.9 | 108.5 | 100.6 | 61.5 | 61.0 | 83.1 | 51.6 | 52.4 | 45.8 |
| 1952 | 40.7 | 22.7 | 22.0 | 29.1 | 23.4 | 36.4 | 39.3 | 54.9 | 28.2 | 23.8 | 22.1 | 34.3 |
| 1953 | 26.5 | 3.9 | 10.0 | 27.8 | 12.5 | 21.8 | 8.6 4.8 | 23.5 | 19.3 | 8.2 | 1.6 | 2.5 |
| 1954 | 0.2 | | 10.9 | 1.8 | 0.8 | 0.2 | | 8.4 | 1.5 | 7.0 | 7.2 | 2.5 7.6 |
| 1955 | 23.1 | 20.8 | 4.9 | 11.3 | 28.9 | 31.7 | 26.7 | 40.7 | 42.7 | 58.5 | 89.2 | 76.9 |
| 1956 | 73.6 | 124.0 | 118.4 | 110.7 | 136.6 | 116.6 | 129.1 | 169.6 | 173.2 | 155.3 | 201.3 | 192.1 |
| 1957 | 165.0 | 130.2 | 157.4 | 175.2 | 164.6 | 200.7 | 187.2 | 158.0 | 235.8 | 253.8 | 210.9 | 239.4 |
| 1958 | 202.5 | 164.9 | 190.7 | 196.0 | 175.3 | 171.5 | 191.4 | 200.2 | 201.2 | 181.5 | 152.3 | 187.6 |
| 1959 | 217.4 | 143.1 | 185.7 | 163.3 | 172.0 | 168.7 | 149.6 | 199.6 | 145.2 | 111.4 | 124.0 | 125.0 |
| 1960 | 146.3 | 106.0 | 102.2 | 122.0 | 119.6 | 110.2 | 121.7 | 134.1 | 127.2 | 82.8 | 89.6 | 85.6 |
| 1961 | 57.9 | 46.1 | 53.0 | 61.4 | 51.0 | 77.4 | 70.2 | 55.8 | 63.6 | 37.7 | 32.6 | 39.9 |
| 1962 | 38.7 | 50.3 | 45.6 | 46.4 | 43.7 | 42.0 | 21.8 | 21.8 | 51.3 | 39.5 | 26.9 | 23.2 |
| 1963 | 19.8 | 24.4 | 17.1 | 29.3 | 43.0 | 35.9 | 19.6 | 33.2 | 38.8 | 35.3 | 23.4 | 14.9 |
| 1964 | 15.3 | 17.7 | 16.5 | 8.6 6.8 | 9.5 | 9.1 | 3.1 | 9.3 | 4.7 | 6.1 | 7.4 | 15.1 |
| 1965 | 17.5 | 14.2 | 11.7 | 6.8 | 24.1 | 15.9 | 11.9 | 8.9 | 16.8 | 20.1 | 15.8 | 17.0 |
| 1966 | 28.2 | 24.4 | 25.3 | 48.7 | 45.3 | 47.7 | 56.7 | 51.2 | 50.2 | 57.2 | 57.2 | 70.4 |
| 1967 | 110.9 | 93.6 | 111.8 | 69.5 | 86.5 | 67.3 | 91.5 | 107.2 | 76.8 | 88.2 | 94.3 | 126.4 |
| 1968 | 121.8 | | 92.2 | 81.2 | 127.2 | 110.3 | 96.1 | 109.3 | 117.2 | 107.7 | 86.0 | 109.8 |
| 1969 | 104.4 | | 135.8 | 106.8 | 120.0 | 106.0 | 96.8 | 98.0 | 91.3 | 95.7 | 93.5 | 97.9 |
| 1970 | 111.5 | 127.8 | 102.9 | 109.5 | 127.5 | 106.8 | 112.5 | 93.0 | 99.5 | 86.6 | 95.2 | 83.5 |
| 1971 | 91.3 | 79.0 | 60.7 | 71.8 | 57.5 | 49.8 | 81.0 | 61.4 | 50.2 | 51.7 | 63.2 | 82.2 |
| 1972 | 61.5 | 88.4 | 80.1 | 63.2 | 80.5 | 88.0 | 76.5 | 76.8 | 64.0 | 61.3 | 41.6 | 45.3 |
| 1973 | 43.4 | 42.9 | 46.0 | 57.7 | 42.4 | 39.5 | 23.1 | 25.6 | 59.3 | 30.7 | 23.9 | 23.3 |
| 1974 | 27.6 | 26.0 | 21.3 | 40.3 | 39.5 | 36.0 | 55.8 | 33.6 | 40.2 13.9 | 47.1 9.1 | 25.0 19.4 | 20.5 7.8 |
| 1975 | 18.9 | 11.5 | 11.5 | 5.1 | 9.0 | 11.4 | 28.2 | 39.7 | 13.9 | 9.1 | 19.4 | 7.0 |
| 1976 | 8.1 | 4.3 | 21.9 | 18.8 | 12.4 | 12.2 | 1.9 | 16.4 | 13.5 | 20.6 | 5.2 | 15.3 43.2 |
| 1977 | 16.4 | 23.1 | 8.7 | 12.9 | 18.6 | 38.5 | 21.4 | 30.1 | 44.0 | 43.8 125.1 | 29.1 97.9 | 122.7 |
| 1978 | 51.9 | 93.6 | 76.5 | 99.7 | 82.7 | 95.1 | 70.4 | 58.1 | 138.2 | | 183.3 | 176.3 |
| 1979 | 166.6 | 137.5 | 138.0 | 101.5 | 134.4 | 149.5 157.3 | 159.4 136.3 | 142.2 135.4 | 188.4 155.0 | 186.2 164.7 | 147.9 | 174.4 |
| 1980 | 159.6 | 155.0 | 126.2 | 164.1 | 179.9 | 15/.5 | 130.3 | 133.4 | 199.0 | 104.7 | 14/.7 | 174.4 |
| 1981 | 114.0 | 141.3 | 135.5 | 156.4 | 127.5 | 90.9 | 143.8 | 158.7 | 167.3 | 162.4 | 137.5 | 150.1 |
| 1982 | 111.2 | 163.6 | 153.8 | 122.0 | 82.2 | 110.4 | 106.1 | 107.6 | 118.8 | 94.7 | 98.1 | 127.0 |
| 1983 | 84.3 | 51.0 | 66.5 | 80.7 | 99.2 | 91.1 | 82.2 | 71.8 | 50.3 | 55.8 | 33.3 | 33.4 |
| 1984 | 57.0 | 85.4 | 83.5 | 69.7 | 76.4 | 46.1 | 37.4 | 25.5 | 15.7 | 12.0 | 22.8 | 18.7 |
| 1985 | 16.5 | 15.9 | 17.2 | 16.2 | 27.5 | 24.2 | 30.7 | 11.1 | 3.9 | 18.6 | 16.2 | 17.3 |
| 1986 | 2.3* | 23.6* | | | | | | | | | | |
| | | | | | | | | | | | | |

^{*}Provisional

FEBRUARY 1986

| | | | | | | NOAA/ | | | | | | | | rea Measurem | | |
|--|---|--|---|--|--|--|--|--|--|--|------------------|----------------|--|---|--------------------------|---|
| Sta Day | Start (UT) | | End (UT) | Lat | CMD | USAF | | P Day | Dur (Min) | Imp Opt Xray | See | Obs Type | Time | Apparent '10 ⁻⁶ Disk) | Corr | Remarks |
| PALE 01 13TA 01 RAMY 01 PALE 01 GOES 01 | 1010E 1953 2004 | | 0038 1028 2035D | \$09 \$07 \$11 | E62 E56 E53 | 4711 | 02 02 02 | 05.7 05.6 05.8 | 16 18D | 1F SB SB SN C 1.3 | 3 3 3 | C C | | 229 39 24 | | F D |
| PEKG 02 PALE 02 PURP 02 PEKG 02 GOES 02 GOES 02 | 0314 0349 0623 1118 | 0020 0314 0351 0630 1122 1655 | 0359 0755 1125 1703 | \$09 \$09 \$08 | E48 E53 E48 | | 02 02 02 | 05.7 | 10 92 7 14 | SN 1N C 2.2 C 1.7 | 3 | C | 0020 0351 0630 | 42 46 32 210 | .7 .6 2.9 | D E D E |
| PALE 02 | | 1946 | | | | 4711 | | 06.5 | | SF C 3.0 | 3 | С | | 20 | | F |
| PALE 03 HOLL 03 | 0430 0430 0828 1400 1804 1304 1304 1344 2037 2037 2039 | 0434 0431 0434 0844 1404 1804 1805 1844 2040 2117 2040 2127 2116 | 1409 1811 1848 1836 1856 | N02 S01 S05 S06 S06 S09 S09 S09 S09 S09 S09 | E31 E29 E31 E28 W55 E26 E26 E26 E26 | 4711 4711 | 02 02 02 02 02 02 01 02 02 02 02 | | 7 7 22 9 7 44 32 12 123 123 145 145 | SN SN 1B SF SN SF C 1.0 SN C 1.0 SF C 1.0 SF C 1.0 SF D 1 | 3 3 3 3 | 00000000000000 | 0434 | 84 23 42 59 43 26 36 51 30 365 606 278 461 487 | 2.9 | D D F E F UFK K FSK K |
| LEAR 04 PURP 04 | 0517 0520 0523 0649 0732 0735 0756 0919 1004 1025 | 0304 0518 0529U 0528 0650 0747 0740 0756 0923 1009 1029 | 0536 0713 0835 0837 0813 0931 1014 | \$09 \$07 \$03 \$07 \$03 \$03 \$03 | E24 E22 E23 E22 E22 | 4711 4711 4711 | 02 02 02 02 02 02 02 | 05.9 06.0 05.9 | 3 25 10 24 63 62 17 12 10 63 | SF SN SN SF SF C 1.9 4B X 3.0 3B X 3.0 2N C 1.8 C 1.0 1B M 6.4 3B | 3 | | 0518 0529 0747 | 43 86 56 28 35 2484 1589 | 1.0 .6 27.9 | F D D F F I FH BE |
| - MITK 05 - PALE 05 - LEAR | 0051 0100E 0118E 0607 0726 954 559 559 2143E 2254 | 0107 0127 0611 0728 0944 442 1003 1022 1929 | 0119 0141D 0623 0746 0952 0964 10040 1027 1932 | \$06 \$04 \$07 N01 N02 \$03 \$04 \$03 \$10 \$08 \$01 | E12 E13 E58 E53 E53 E06 E05 E04 W03 E48 | 4713 4713 4711 | 02 02 02 02 02 02 02 02 02 | 05.8 05.9 06.0 | 22 190 230 16 20 18 15 60 10 3 | SN | 3 3 | 00000 00 0000 | 0052 | 32 87 200 26 24 47 64 25 101 32 61 | 2.1 | E FS FS F F F F F F F F F F F F F F F F |
| PALE 05 LEAR 05 LEAR 05 MITK 05 | 2318 2331 2333 | 2319 2334 2334 | 2322 2339 2342 2359 | S03 S07 S03 | W03 W06 | 4711 4711 4711 | 02 02 02 | 05.7 05.5 05.6 05.5 | 4 8 9 | SF SF SF SN | 3 3 3 | 0000 | 2344 | 35 48 23 | | F F E |
| LEAR 06 LFAR 06 PALE 06 PURP 06 LEAR 06 PEKG 06 MITK 06 PALE 06 MITK 06 PURP 06 LEAR 06 PURP 06 | 0117 0117 0119 0211 0212 0215 0225E 0335 0354 0356 0531 | 0058 0117 0118 0121 0220 0218 0340 0402 0409 0533 0622 | 0103 0134 0130 0132 0243 0246 0300 0229D 0355 0422 0439 0541 | N00 S02 S03 S07 S04 S06 S05 S08 S05 S07 | E41 E41 W04 W05 W06 W06 W08 W05 | 4713 4713 4713 4711 4711 4711 | 02 02 02 02 02 02 02 02 02 02 | 09.2 09.1 09.1 09.1 05.8 05.7 05.6 05.7 05.6 06.1 | 17 13 13 32 34 45 40 20 28 43 | SF SF SB SN C 1.8 SN C 1.8 1N SF C 1.9 SN SN C 1.7 38 | 2 | 00000000000000 | 0121 0220 0218 0227 0402 04 | 23 65 42 90 148 105 168 250 25 | 1.2 1.5 1.7 2.6 | F F I E F E |

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| NOAA/ | | | | | | | | | | | | |
|--|---|---|--|---|---|---|---|---|------------------------------|---|---------|-----------------------|
| Start | | | NOAA/ USAF | CMP | Dur | Imp | (| 0bs | Time | rea Measureme Apparent | Corr | |
| | (UT) (UT) | | | Mo Day | | Opt Xray | | Туре | (UT) | (10 ⁻⁶ Disk) (| Sq Deg) | Remarks |
| PEKG 06 0618 (LEAR 06 0814 CEAR 06 0814 CEAR 06 1357 RAMY 06 1357 RAMY 06 1431 GOES 06 1724 PALE 06 1835 RAMY 06 1835 PALE 06 1919 RAMY 06 1920E HOLL 06 2016E 201 | 0628 0736 0815 0828 1501 1548 1528 1548 1434 1436 1742 1749 1836 1841 1921 1934 1920 1942D 2016U 2028 | \$07 W06 \$06 W01 \$10 W12 \$10 W12 \$04 W90 \$03 E35 \$01 E31 \$11 W11 \$06 W15 \$11 W10 | 4711 2 4711 2 4711 4712 4713 4713 4711 4711 | 02 05.8 02 06.3 02 05.7 02 05.7 01 31.0 02 09.4 02 09.1 02 06.0 02 05.8 02 05.7 02 06.1 | 78 14 111 111 5 25 8 6 15 22D 120 10 22 | 3B X 1.7 SF SN SB SF C 1.1 SF SF C 1.6 SN C 1.6 SF SF C 1.2 C 1.1 | 3 3 3 3 3 | 00000 000000 | 0628 | 2061 92 37 103 27 29 60 145 39 50 | 21.3 | HIJU F K F K |
| LEAR 07 0133 GOES 07 0208 LEAR 07 0326 PALE 07 0326 LEAR 07 0523 LEAR 07 0729 LEAR 07 0729 LEAR 07 1014 RAMY 07 1208E GOES 07 2033 PALE 07 2124 GOES 07 2206 HOLL 07 2256 | 0137 0151 0221 0230 0331 0342 0332 0345 0525 0533 0731 0758 | \$09 W16 \$08 W15 \$11 W17 \$09 W16 \$08 W18 \$08 W18 \$09 W20 \$11 W21 \$01 E16 NO0 E09 \$08 W27 \$08 W27 | 4711 4711 4711 4711 4711 4711 4711 4711 | 02 05.9 02 06.0 02 05.9 02 05.9 02 06.0 02 06.0 02 05.9 02 09.1 02 08.6 02 05.9 02 05.9 | 18 22 16 19 10 29 29 21D 138D 14 6 5 | SF C 1.5 SN C 2.2 SN C 2.2 SN C 2.2 SN C 2.2 SN C 1.2 SF C 1.7 SF C 1.7 SF C 1.1 | 3 | 0 00000000 0 000 | | 107 140 114 87 95 55 859 36 32 74 | | F F F K K |
| PALE 08 0241 PPURP 08 0415 PEKG 08 0415 LEAR 08 0417 LEAR 08 0557 LEAR 08 0609 LEAR 08 0609 MITK 08 0611 PURP 08 0620E RAMY 08 1630 RAMY 08 1917 RAMY 08 1926 RAMY 08 1935 RAMY 08 2012 RAMY 08 2028 RAMY 08 2030 | 0241 0245 0421 0437 0425 0500 0421 0437 0559 0611 0618 0652 0629 0652 0616 0627 | S08 W29 S07 W39 S05 W39 S04 W36 S00 E12 S03 E12 S02 E17 S10 W38 S10 W38 S10 W38 S10 W38 S10 W38 S10 W38 S12 W40 S02 E02 S03 E04 S05 W40 | 4711 3 4711 4713 4713 4713 4711 3 4711 3 4711 3 4711 4713 4713 4713 4713 | 02 05.9 02 05.5 02 05.5 02 05.7 02 05.5 02 09.1 02 09.1 02 09.2 02 05.9 02 05.9 02 05.9 02 09.1 02 09.0 02 05.8 02 06.0 | 4 22 45 20 14 43 43 16 31D 45 7 5 8 | SF SN SN SF SF SF C 1.7 SN 1N SF SF SF SF SF SF SF SF SF SF SF SF SF | 3 3 3 3 | 0000000000000000000 | 0421 0425 0616 0627 | 27 94 125 41 28 284 76 255 26 18 22 50 27 25 19 | 1.2 | D F K K E E |
| PURP 09 0122 LEAR 09 0929 GOES 09 2100 | 0125 0128 0125 0128 0931 0943 2107 2111 2322 2329 | S01 W00 S07 W44 S04 W46 | 1 | 02 09.0 02 05.8 02 05.9 | 6 | SN SN SF C 1.8 C 1.0 | 3 | CCC | 0125 0125 | 26 20 44 | .3 | E E |
| LEAR 10 0058 PURP 10 0231E LEAR 10 0511 LEAR 10 0533 LEAR 10 0708 LEAR 10 0708 LEAR 10 0947 LEAR 10 1003 RAMY 10 1147 GOES 10 1602 RAMY 10 1603 HOLL 10 2025 | 0513 0514 0533 0540 0720 0821 0743 0821 0948 0954 1007 1008D 1155 1235 1634 1643 1606 1615 2048U 2100D 2055 2100D | NO1 W20 NO1 W15 NO1 W16 SO6 W60 NO1 W20 SO6 W60 SO9 W66 | 2 4713 2 4713 3 4713 3 4713 3 4713 5 4711 5 4711 4 4711 2 4713 2 4713 | 02 09.0 02 09.1 02 09.9 02 08.7 02 09.1 02 08.9 02 08.9 02 08.7 02 05.5 02 05.5 02 08.5 02 08.5 | 8 8D 3 7 73 7 50 48 41 12 350 350 | SN SF SN SF SN C 5.2 SF SF SB C 3.4 SN C 9.5 1B SB | 3 3 2 | 000000000000000000000000000000000000000 | 0043 0231 | 160 28 102 22 31 195 115 17 29 111 58 60 314 | 1.7 | G F K F K |
| PURP 11 0114E PURP 11 0330 | 0109 0112 0116 0130 0337 0427 0345 0450 | S04 W56 N00 W26 S01 W36 S01 W36 | 3 | 02 05.9 02 09.0 02 08.9 02 08.9 | 16D 57 | SF 1N 1N 3B | 3 | 0000 | 01 03 03 | | | |

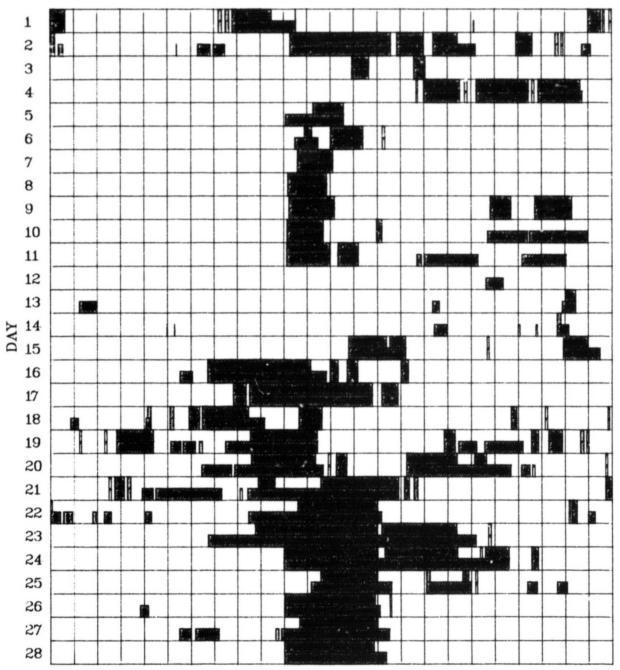
FEBRUARY 1986

| Star Max End USAF OMP Our Ou | | | | | | | | | | | | | | | |
|--|----------------|------------|---------|---------------|------|-------|------|---------|-------|-----|------|------|-------------------------|----------|---------|
| STEADY (UT) (UT) (UT) LST DOR Region No. By (No. 1) Opt. Xery See Ype (UT) (1076 Disk) (SG Deg) Members | Start | Max End | | NOAA/ USAF | OMP | D | ur | Im | 1p | | 0bs | Time | Apparent | Corr | |
| LEAR II 10 352 0350 4040 NOB 950 4713 02 08.9 68 18 M 1.1 3 C 294 FK C 150 10 10 10 10 10 10 10 10 10 10 10 10 10 | Sta Day (UT) | (UT) (UT) | Lat CMD | Region | Mo D | ay (M | lin) | Opt | Xray | See | Туре | (UT) | (10 ⁻⁶ Disk) | (Sq Deg) | Remarks |
| LEAR 11 0352 0460 0450 0460 0471 02 0471 02 0471 02 0471 0 | LEAR 11 0332 | 0338 0440 | | | | | 68 | 1B M | 1 1.1 | 3 | С | | 294 | | FK |
| LEAR II 0450 0452 0599 500 W22 4713 02 09, 0 19 5 C 2,1 C 0635 210 2,7 E 0625 11 1050 1050 0725 0725 0725 0725 0725 0725 0725 0 | LEAR 11 0332 | 0406 0440 | | | | 8.9 | 68 | SN | | 3 | C | | 189 | | K |
| PERS 11 0612 | | | S00 W29 | 4713 | 02 0 | | | CE | | * | С | | 24 | | F |
| Care 11 1884 1884 1894 1894 1894 1894 1894 1894 1894 1894 1894 1895 18 | | | | | | • | 62 | | 2.1 | | | | | | |
| GOES 11 1199 1139 1139 1139 5 0 0 C 1, 2 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | NO1 W37 | 4713 | 02 0 | 8.5 | | IN CE C | | 2 | | 0635 | | 2.7 | Ε |
| GOES 11 1150 1153 1155 5 | | | NU2 W37 | 4/13 | 02 0 | | | (| 1.2 | , | C | | 23 | | |
| DOES 11 1946 1555 1605 | GOES 11 1150 | | | | | | | | | | | | | | |
| HOLL 11 2194E 2199 2231 506 880 4711 02 02.05,9 370 SF | | | | | | | | | | | | | | | |
| PALE 2 0027 0027 0025 0035 003 | HOLL 11 2154E | 2159 2231 | | | | 5.9 | 370 | SF | | | _ | | | | |
| | LEAR 11 2303 | 2321 2405 | NOO W43 | 4713 | 02 0 | 8.7 | 62 | SN M | 1 1.0 | 3 | С | | 110 | | ZF |
| Full 12 0249 0251 0309 0301 W51 02 08,5 19 58 C 0.6 3 C 0.251 90 1.5 | | | | | | | | | | 3 | | | | | |
| LEAR 12 0251 0259 0303 NOS M99 4715 02 08,4 12 5F C 1.6 3 C 28 LEAR 12 0304 0308 0310 NOS M99 4715 02 08,5 6 5F C 1.6 3 C 0409 23 .4 D PURP 12 0407 0409 0411 NOI W52 02 08,3 4 SN C 1.9 C 0409 23 .4 D LEAR 12 0450 0309 0514 NOI W52 07 08,5 5 SF C 1.6 3 C 0509 39 .7 E LEAR 12 0451 0345 0359 NOI W54 14713 02 08,4 1 7 SF C 1.9 C 0409 23 .4 D LEAR 12 0913 0913 0918 NOS W52 4713 02 08,5 5 SF SF C 1.6 3 C 0509 39 .7 E LEAR 12 0913 0913 0918 NOS W52 4713 02 08,5 5 SF SF C 1.6 3 C 0509 39 .7 E WEND 12 1034 1104 1207 NOS W52 4713 02 08,5 5 SF SF SF C 1.6 3 C 26 W540 12 1034 1104 1207 NOS W52 4713 02 08,5 5 SF | | | | | | | | | | 3 | | 0251 | | 1.5 | |
| PURP 12 0407 0409 0411 NOI W52 02 08.3 4 SN C 0409 23 .4 D PURP 12 0507 0509 0514 PURP 12 0507 0509 0514 LEAR 12 0501 0540 0550 0514 LEAR 12 0501 0541 0543 0552 N05 W11 4713 02 08.4 11 SF 3 C 25 LEAR 12 0704 0706 0709 N05 W11 4713 02 08.5 5 SF 3 C 25 LEAR 12 0705 0596 1001 N05 W52 4713 02 08.5 5 SF 3 C 25 ROSE 12 0501 1013 1103 1207 N05 W52 1103 W11 4713 02 08.5 5 SF 3 C 25 ROSE 12 103 1103 1103 1207 N05 W52 110 W53 W52 110 W53 W52 W11 W53 W52 W53 | | | | | | | 12 | SF (| 1.6 | 3 | C | 0271 | | | |
| Color Colo | | | | | | | | | 1.6 | 3 | | 0400 | | 4 | D |
| LEAR 12 (094) 0509 0509 0514 NOI M92 02 08.5 7 SF C 05099 39 .7 E LEAR 12 (074) 0706 0709 NOI M91 4715 02 08.4 11 SF 3 C 25 LEAR 12 (074) 0706 0709 NOI M91 4715 02 08.5 15 SF 3 C 25 LEAR 12 (0915) 0915 0916 1001 NOI M92 4715 02 08.5 15 SF 3 C 43 LEAR 12 (0915) 0915 0916 1001 NOI M92 4715 02 08.5 15 SF 3 C 43 LEAR 12 (1904) 1034 1104 127 NOI M93 130 02 08.5 15 SF 3 C 43 LEAR 12 (1904) 1034 1104 127 NOI M93 130 02 08.5 15 SF 3 C 43 LEAR 13 (1904) 1034 1104 127 NOI M93 130 02 08.5 15 SF 3 C 1104 156 2.7 GOES 12 1208 2135 1357 SOI M93 4115 02 08.6 15 SF 3 C 1104 156 2.7 LEAR 13 (1904) 1042 1208 2139 NOI M64 4715 02 08.6 15 SF 3 C 1104 156 2.7 LEAR 13 (1904) 1042 1042 1042 1042 1042 1042 1042 1042 | | | NOT #32 | | 02 0 | | | | 1.9 | | C | 0409 | 23 | •• | U |
| GOES 12 1034 1104 1207 N03 W553 02 08.5 3 1F C 1.7 C 1.9 C 1104 156 2.7 GOES 12 1350 1353 1357 1357 1353 1357 14713 02 08.5 34 S8 C 2.1 3 C 62 FE GOES 12 1298 2133 2159 N02 W62 4713 02 08.5 100 SF 2.7 C 1.0 C 114 FE GOES 12 2221 2252 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 0246 0248 0254 N04 W65 4713 02 08.5 6 SF N 1.0 3 C 0.0 4 5 | L-PURP 12 0507 | | | | | 8.3 | . 7 | SF | | | С | 0509 | | .7 | Ε |
| GOES 12 1034 1104 1207 N03 W553 02 08.5 3 1F C 1.7 C 1.9 C 1104 156 2.7 GOES 12 1350 1353 1357 1357 1353 1357 14713 02 08.5 34 S8 C 2.1 3 C 62 FE GOES 12 1298 2133 2159 N02 W62 4713 02 08.5 100 SF 2.7 C 1.0 C 114 FE GOES 12 2221 2252 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 0246 0248 0254 N04 W65 4713 02 08.5 6 SF N 1.0 3 C 0.0 4 5 | | | | | | 8.4 | 11 | SF | | 3 | C | | | | |
| GOES 12 1034 1104 1207 N03 W553 02 08.5 3 1F C 1.7 C 1.9 C 1104 156 2.7 GOES 12 1350 1353 1357 1357 1353 1357 14713 02 08.5 34 S8 C 2.1 3 C 62 FE GOES 12 1298 2133 2159 N02 W62 4713 02 08.5 100 SF 2.7 C 1.0 C 114 FE GOES 12 2221 2252 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 2222 2325 2355 150 C 2.7 C 1.0 C 114 FE GOES 12 0246 0248 0254 N04 W65 4713 02 08.5 6 SF N 1.0 3 C 0.0 4 5 | | | NO3 W52 | 4713 | 02 0 | 8.5 | 5 | SF | | 3 | C | | 43 | | |
| GOES 12 1350 1353 1357 1358 1357 7 C 1.9 RAWY 12 1351 1403 1425 SO1 W53 4713 02 08.6 3 4 SB C 2.1 3 C 62 ROLL 12 2129E 2133 2159 NO2 W62 4713 02 08.6 3 100 SF 2.7 GOES 12 2201 2209 2211 GOES 12 2201 2209 2211 GOES 12 2322 2325 2355 | | | | | | 8.5 | 6 | SF | 1 7 | 3 | C | 1104 | | 2 7 | |
| RAMY 12 1351 1403 1425 501 M55 4713 02 08.6 34 S8 C 2.1 3 C 62 FE HOLL 12 2129E 2135 2159 NO2 W62 4713 02 08.5 100 SF 3 C 114 F GOES 12 2201 2208 2211 10 C 2.7 13 C 1.0 F GOES 12 2202 2205 2355 SF 10 C 1.0 F GOES 12 2202 2325 2355 SF 10 C 1.0 F GOES 12 2202 2325 2355 SF 10 C 1.0 F GOES 12 2202 2325 2355 SF 10 C 1.0 F GOES 12 2202 2325 2355 SF 10 C 1.0 F GOES 12 2202 2325 2355 SF 10 C 1.0 F GOES 12 2202 2325 2355 SF 10 C 1.0 F GOES 12 2202 2325 2355 SF 10 C 1.0 F GOES 12 2202 2325 2355 SF 10 C 1.0 F GOES 13 0246 0248 0252 NO5 W64 02 08.5 6 SF 1.0 C 0.248 210 5.2 E LEAR 13 0246 0248 0252 NO5 W64 02 08.5 6 SF 1.0 C 0.248 210 5.2 E LEAR 13 0256 0256 0302 NO2 W61 4713 02 08.6 6 SF 1.0 C 0.248 210 5.2 E LEAR 13 0354 0354 0359 NO2 W61 4713 02 08.6 6 SF 1.0 C 0.25 F LEAR 13 0545 0354 0359 NO2 W61 4713 02 08.4 F 5 SF 3 C 0.24 5 SF 2 C 25 F GOES 13 0451 0454 0501 | | | | | | | | | | | C | 1104 | 136 | 2.1 | |
| GUES 12 2201 2208 2215 2355 | RAMY 12 1351 | 1403 1425 | | | | | 34 | SB C | 2.1 | | C | | | | |
| GOES 12 2322 2325 2355 | | | NO2 W62 | 4/13 | 02 0 | 18.5 | | SF (| 2.7 | 3 | C | | 114 | | F |
| CEAR 15 0246 0224 0255 0256 0302 0302 0302 0304 04713 02 08.6 6 SF 3 C 20 F CEAR 13 0356 0357 032 032 0354 03 | | | | | | | | | | | | | | | |
| C LEAR 13 0246 0248 0254 0359 030 050 654 02 08,4 8 SF M 1,0 3 C 0248 210 5,2 E E EAR 13 0256 0256 0302 002 w61 4715 02 08,6 6 SF 3 C 20 F EAR 13 0356 0357 0352 0302 0302 0302 0304 61 4715 02 08,6 6 SF 3 C 20 F EAR 13 0354 0359 0359 0302 036 4713 02 08,6 6 SF 3 C 23 SF C C C C C C C C C | LEAR 13 0234 | 0235 0240 | S01 W54 | 4713 | 02 0 | 9.1 | 6 | SF | | 3 | С | | 55 | | |
| LEAR 13 0356 0256 0302 N02 w61 4713 02 08.6 6 6 SF 3 C 20 F LEAR 13 03516 0327 0332 N02 w61 4713 02 08.4 15 SF 3 C 23 F LEAR 13 0354 0354 0359 N02 w63 4713 02 08.4 15 SF 3 C 23 F LEAR 13 0354 0458 0501 0501 0501 0501 0501 0501 0501 05 | - LEAR 13 0246 | 0246 0254 | NO4 W63 | 4713 | 02 0 | 8.4 | 8 | | | 3 | C | | | | |
| GOES 13 0451 0454 0501 050 NC4 02 08.4 10 C 6.9 C 0458 168 3.9 E LEAR 13 0710 0716 0721 N03 W55 4713 02 08.4 11 SF 3 C 24 F GOES 13 1250 1258 1306 16 C 1.0 GOES 13 1250 1258 1306 16 C 1.0 GOES 13 1351 1358 1406 15 C 1.0 GOES 14 13 1933 1933 1935 NOI W70 4713 02 08.9 4 SB C 2.0 3 C 50 GOES 14 14 13 1933 1933 1935 NOI W70 4713 02 08.9 4 SB C 2.0 3 C 50 GOES 14 14 13 1933 1933 1935 NOI W70 4713 02 08.9 4 SB C 2.0 5 C 60 GOES 14 14 14 1545 1546 1540 NOI W70 4713 02 08.9 4 SB C 2.0 5 C 60 GOES 14 14 0 0002 0003 0009 S03 W68 4713 02 08.9 4 SB C 2.0 5 C 50 GOES 15 0543 0611 0627 GOES 15 0543 0611 0627 GOES 15 0642 0733 0824 102 GOES 15 1016 1203 1300 GOES 15 1304 1309 1316 GOES 16 1246 2357 2550 GOES 15 1066 12246 2357 2550 GOES 15 1066 122 | | | | | | 18.3 | 6 | 2N N | 1 1.0 | 3 | | 0248 | | 5.2 | |
| GOES 13 0451 0454 0501 050 NC4 02 08.4 10 C 6.9 C 0458 168 3.9 E LEAR 13 0710 0716 0721 N03 W55 4713 02 08.4 11 SF 3 C 24 F GOES 13 1250 1258 1306 16 C 1.0 GOES 13 1250 1258 1306 16 C 1.0 GOES 13 1351 1358 1406 15 C 1.0 GOES 14 13 1933 1933 1935 NOI W70 4713 02 08.9 4 SB C 2.0 3 C 50 GOES 14 14 13 1933 1933 1935 NOI W70 4713 02 08.9 4 SB C 2.0 3 C 50 GOES 14 14 13 1933 1933 1935 NOI W70 4713 02 08.9 4 SB C 2.0 5 C 60 GOES 14 14 14 1545 1546 1540 NOI W70 4713 02 08.9 4 SB C 2.0 5 C 60 GOES 14 14 0 0002 0003 0009 S03 W68 4713 02 08.9 4 SB C 2.0 5 C 50 GOES 15 0543 0611 0627 GOES 15 0543 0611 0627 GOES 15 0642 0733 0824 102 GOES 15 1016 1203 1300 GOES 15 1304 1309 1316 GOES 16 1246 2357 2550 GOES 15 1066 12246 2357 2550 GOES 15 1066 122 | | | | | | 8.6 | 16 | SF | | 3 | C | | | | F |
| LEAR 13 0710 0716 0721 N03 W59 4715 02 08.4 8 1N | | | NO2 W63 | 4713 | 02 0 | 8.4 | - | 31 | | - | С | | 23 | | F |
| GOES 13 1250 1258 1306 GOES 13 1351 1358 1406 [HOLL 13 1717 1720 1742 S03 W65 4713 02 08.9 25 SB C 2.0 3 C 76 FH PALE 13 1935 1935 1935 NO1 W70 4713 02 08.9 4 SB C 2.0 3 C 50 PALE 13 1935 1935 NO1 W70 4713 02 08.9 4 SN C 5.1 2 C 166 PALE 13 2315 2316 2318 2320 S01 W66 4713 02 08.9 7 SF 2 C 60 PALE 14 0002 0003 0009 S03 W68 4713 02 08.9 7 SF 3 C 34 PALE 14 0045 0047 0049 S03 W68 4713 02 08.9 7 SF 3 C 23 LEAR 14 0301 0304 0306 NO4 W76 4713 02 08.4 5 SF 3 C 25 LEAR 14 0910 0926 1000 S02 W80 02 08.4 5 SF 3 C 114 WHEND 14 0910 0926 1000 S02 W80 02 08.4 5 SF 3 C 114 FAMY 14 1545 1545 1546 15490 S03 W78 4713 02 08.7 15 SB C 5.8 3 C 79 HOLL 14 12038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 GOES 15 0407 0412 0414 GOES 15 0642 0733 0824 LEAR 15 0842 0846 0849 S01 W83 4713 02 08.4 14 SB C 3.5 3 C 27 GOES 15 1304 1309 1316 GOES 16 1134 1151 1156 GOES 16 1134 1151 1156 GOES 16 1134 1151 1156 GOES 16 1246 2357 2550 GOES 28 1456 1506 1510 | | | NOS WEA | | 02 0 | 08.4 | 8 | 1N | 0.9 | | С | 0458 | 168 | 3.9 | Ε |
| GOES 13 1250 1258 1306 GOES 13 1351 1358 1406 HOLL 13 1717 1720 1742 S03 W65 4713 02 08.9 25 SB C 2.0 3 C 76 FH PALE 13 1935 1935 1935 NO1 W70 4713 02 08.6 2 SF 2 C 1.0 PALE 13 2315 2316 2318 2320 S01 W66 4713 02 08.9 4 SN C 5.1 2 C 60 PALE 14 0002 0003 0009 S03 W68 4713 02 09.0 4 SN C 5.1 3 C 60 PALE 14 0045 0047 0049 S03 W68 4713 02 09.0 4 SN C 5.1 3 C 60 PALE 14 0045 0047 0049 S03 W68 4713 02 08.9 7 SF 3 C 23 LEAR 14 0301 0304 0306 N04 W76 4713 02 08.4 5 SF 3 C 15 LEAR 14 0910 0926 1000 S02 W80 02 08.4 5 SF 3 C 114 WEND 14 0910 0926 1000 S02 W80 02 08.4 5 SF 3 C 114 FAMY 14 1545 1545 1546 15490 S03 W78 4713 02 08.7 15 SB C 5.8 3 C 79 HOLL 14 12038 2038 2052 N00 W86 4713 02 08.4 14 SB C 3.5 3 C 40 GOES 15 0407 0412 0414 GOES 15 0642 0733 0824 LEAR 15 0950 0951 0955 S02 W83 4713 02 09.2 7 SN C 5.7 3 C 50 GOES 15 1134 1151 1156 GOES 16 1134 1151 1156 GOES 28 1456 1506 1510 14 C 1.0 | LEAR 13 0710 | | | | | | 11 | SF | | 3 | | | | | _ |
| GOES 13 1351 1358 1406 HOLL 13 1717 1720 1742 S03 W65 4713 02 08.9 25 S8 C 2.0 3 C 76 RAMY 13 1719 1720 1723 S03 W65 4713 02 08.9 4 SB C 2.0 3 C 50 PALE 13 1933 1933 1933 1935 N01 W70 4713 02 08.6 2 SF 2 C 16 PALE 13 2315 2316 2318 2320 S01 W66 4713 02 08.9 4 SN C 5.1 2 C 60 PALE 14 0002 0003 0009 S03 W68 4713 02 08.9 4 SN C 5.1 3 C 60 PALE 14 0045 0047 0049 S03 W68 4713 02 08.9 7 SF 3 C 23 LEAR 14 0909 0922 1034D S01 W76 4713 02 08.4 5 SF 3 C 23 LEAR 14 0909 0922 1034D S01 W76 4713 02 08.4 5 SF 3 C 23 LEAR 14 0909 0922 1034D S01 W76 4713 02 08.4 5 SF 3 C 15 LEAR 14 1545 1545 1600 N01 W80 4713 02 08.7 850 1N M 6.4 3 C 114 FF AMY 14 1545 1545 1546 15490 S03 W78 4713 02 08.7 850 1N M 6.4 C 0926 90 A 14 SMY 14 1545 1546 15490 S03 W78 4713 02 08.8 40 SR C 5.8 3 C 79 HOLL 14 2038 2038 2052 N00 W86 4713 02 08.8 40 SR C 5.8 3 C 79 HOLL 14 2038 2038 2052 N00 W86 4713 02 08.4 14 SR C 3.5 3 C 40 GOES 15 0642 0733 0824 14 | | | NO4 W67 | 4/13 | 02 0 | | | SF (| 2 1.0 | 3 | C | | 24 | | r |
| RAMY 13 1719 1720 1723 S03 W65 4713 O2 08.9 4 S8 C 2.0 3 C 50 | | 1358 1406 | | | | | 15 | (| 0 1.0 | | | | | | |
| PALE 13 1933 1935 1935 1935 NO1 W70 4713 02 08.6 2 SF 2 C 16 Heat 13 2316 2318 2310 S03 W68 4713 02 08.9 4 SN C 5.1 2 C 60 Heat 13 2316 2318 2320 S01 W66 4713 02 09.0 4 SN C 5.1 3 C 60 Heat 14 0045 0047 0049 S03 W68 4713 02 09.0 4 SF 3 C 23 LEAR 14 0301 0304 0306 NO4 W76 4713 02 08.4 5 SF 3 C 23 LEAR 14 0301 0304 0306 NO4 W76 4713 02 08.4 5 SF 3 C 15 LEAR 14 0910 0922 10340 S01 W76 4713 02 08.4 5 SF 3 C 15 LEAR 14 0910 0926 1000 S02 W80 02 08.4 50 IN M 6.4 C 0926 90 A Heat 14 1545 1545 1540 S03 W78 4713 02 08.7 15 SB C 5.8 3 C 89 F AND 14 1545 1546 15490 S03 W78 4713 02 08.7 15 SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 Holl 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 Holl 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 Holl 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 Holl 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 Holl 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 Holl 14 2038 2038 2052 NO0 W86 4713 02 09.2 10 SN C 5.7 3 C 50 Y C 1.0 GOES 15 1016 1203 1300 156 1204 1309 1316 1205 1300 156 1205 1304 1309 1316 15 C 2.3 Holl 150 150 150 150 150 150 150 150 150 150 | | | | | | | 25 | SB (| 2.0 | 3 | | | | | FH |
| PALE 14 0002 0003 0009 S03 W68 4713 02 09.0 4 SN C 5.1 3 C 60 PALE 14 00045 0047 0049 S03 W68 4713 02 08.9 7 SF 3 C 23 LEAR 14 0301 0304 0306 N04 W76 4713 02 08.4 5 SF 3 C 15 LEAR 14 0909 0922 1034D S01 W76 4713 02 08.7 85D 1N M 6.4 3 C 15 WEND 14 0910 0926 1000 S02 W80 02 08.4 50 IN M 6.4 C 0926 90 A HOLL 14 1545 1545 1600 N01 W80 4713 02 08.7 85D 1N M 6.4 C 0926 90 A HOLL 14 1545 1546 15490 S03 W78 4713 02 08.8 4D S8 C 5.8 3 C 79 HOLL 14 2038 2038 2052 N00 W86 4713 02 08.4 14 S8 C 3.5 3 C 40 GOES 15 0642 0733 0824 LEAR 15 0842 0846 0849 S01 W83 4713 02 09.2 7 SN C 7.4 3 C 27 GOES 15 1016 1203 1300 GOES 15 1746 1749 1801 156 22 GOES 16 1134 1151 1156 GOES 16 2246 2357 2550 184 C 1.0 GOES 28 1456 1506 1510 14 C 1.0 | PALE 13 1933 | 1933 1935 | NO1 W70 | 4713 | | | | | , 2.0 | 2 | | | | | Н |
| PALE 14 0002 0003 0009 S03 W68 4713 02 08.9 7 SF 3 C 23 LEAR 14 0301 0304 0306 N04 W76 4713 02 08.4 5 SF 3 C 23 LEAR 14 0301 0304 0306 N04 W76 4713 02 08.4 5 SF 3 C 15 LEAR 14 0909 0922 1034D S01 W76 4713 02 08.4 5 SF 3 C 15 WEND 14 0910 0926 1000 S02 W80 02 08.4 50 IN M 6.4 C 0926 90 A HOLL 14 1545 1545 1600 N01 W80 4713 02 08.7 15 SB C 5.8 3 C 89 FAMY 14 1545 1546 15490 S03 W78 4713 02 08.8 40 SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 N00 W86 4713 02 08.4 14 SB C 3.5 3 C 40 GOES 15 0407 0412 0414 | | | S03 W68 | 4713 | | | | | | | | | | | |
| PALE 14 0045 0047 0049 S03 W68 4713 02 09.0 4 SF 3 C 23 LEAR 14 0301 0304 0306 N04 W76 4713 02 08.4 5 SF 3 C 15 LEAR 14 0909 0922 1034D S01 W76 4713 02 08.7 85D 1N M 6.4 3 C 114 F 14 | - LEAR 13 2316 | 2516 2520 | 301 400 | 4/13 | 02 0 | 19.0 | 4 | 314 (| J. 1 | , | C | | 00 | | |
| LEAR 14 0301 0304 0306 N04 W76 4713 02 08.4 5 SF 3 C 15 LEAR 14 0909 0922 1034D S01 W76 4713 02 08.7 850 1N M 6.4 3 C 114 F WEND 14 0910 0926 1000 S02 W80 02 08.4 50 1N M 6.4 C 0926 90 A CHOLL 14 1545 1545 1600 N01 W80 4713 02 08.7 15 SB C 5.8 3 C 89 F RAMY 14 1545 1546 1549D S03 W78 4713 02 08.8 4D SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 N00 W86 4713 02 08.4 14 SB C 3.5 3 C 40 GOES 15 0407 0412 0414 GOES 15 0642 0733 0824 LEAR 15 0842 0846 0849 S01 W83 4713 02 09.2 7 SN C 5.7 3 C 50 Y GOES 15 1016 1203 1300 GOES 15 1016 1203 1300 GOES 15 1746 1749 1801 156 GOES 16 1134 1151 1156 GOES 16 2246 2357 2550 184 C 7.0 GOES 28 1456 1506 1510 14 C 1.0 | | | | | | - | | | | | | | | | |
| LEAR 14 0909 0922 1034D S01 W76 4713 02 08.7 85D 1N M 6.4 3 C 0926 90 A WEND 14 0910 0926 1000 S02 W80 02 08.4 50 1N M 6.4 C 0926 90 A HOLL 14 1545 1545 1600 N01 W80 4713 02 08.7 15 SB C 5.8 3 C 89 F RAMY 14 1545 1546 1549D S03 W78 4713 02 08.8 4D SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 N00 W86 4713 02 08.4 14 SB C 3.5 3 C 40 GOES 15 0407 0412 0414 | | | | | | | | - | | | | | | | |
| HOLL 14 1545 1545 1600 NO1 W80 4713 02 08.7 15 SB C 5.8 3 C 89 F RAMY 14 1545 1546 1549D SO3 W78 4713 02 08.8 4D SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 SB C 5.8 3 C 79 HOLL 14 2038 2038 2052 NO0 W86 4713 02 08.4 14 SB C 3.5 3 C 40 SB C 5.8 3 C 79 HOLL 14 SB C 3.5 5 SB C 5.8 3 C 79 HOLL 14 SB C 3.5 3 C 70 HOLL 14 SB C 3.5 3 C 79 | - LEAR 14 0909 | 0922 10340 | | | | - | | | | | | 0026 | | | |
| RAMY 14 1545 1546 1549D S03 W78 4713 02 08.8 | | | | | | | | | | | | 0926 | | | |
| GOES 15 0407 0412 0414 GOES 15 0543 0611 0627 GOES 15 0642 0733 0824 LEAR 15 0842 0846 0849 S01 W83 4713 02 09.2 7 SN C 5.7 3 C LEAR 15 0950 0951 0955 S02 W83 4713 02 09.2 5 SN C 7.4 3 C GOES 15 1016 1203 1300 GOES 15 1304 1309 1316 GOES 15 1746 1749 1801 GOES 16 1134 1151 1156 GOES 16 2246 2357 2550 GOES 28 1456 1506 1510 7 | RAMY 14 1545 | 1546 1549 | SO3 W78 | 4713 | 02 0 | 8.8 | 4D | SB (| 0 5.8 | 3 | C | | 79 | | |
| GOES 15 0543 0611 0627 GOES 15 0642 0733 0824 LEAR 15 0842 0846 0849 S01 W83 4713 02 09.2 7 SN C 5.7 3 C 50 Y LEAR 15 0950 0951 0955 S02 W83 4713 02 09.2 5 SN C 7.4 3 C 27 Y GOES 15 1016 1203 1300 164 M 2.2 GOES 15 1304 1309 1316 12 M 1.6 GOES 15 1746 1749 1801 15 C 2.3 GOES 16 1134 1151 1156 22 C 1.0 GOES 16 2246 2357 2550 184 C 7.0 GOES 28 1456 1506 1510 14 C 1.0 | HOLL 14 2038 | 2038 2052 | N00 W86 | 4713 | 02 0 | 08.4 | 14 | SB (| 3.5 | 3 | C | | 40 | | |
| GOES 15 0642 0733 0824 LEAR 15 0842 0846 0849 S01 W83 4713 02 09.2 7 SN C 5.7 3 C LEAR 15 0950 0951 0955 S02 W83 4713 02 09.2 5 SN C 7.4 3 C GOES 15 1016 1203 1300 164 M 2.2 GOES 15 1304 1309 1316 12 M 1.6 GOES 15 1746 1749 1801 15 C 2.3 GOES 16 1134 1151 1156 22 C 1.0 GOES 28 1456 1506 1510 14 C 1.0 | | | | | | | | | | | | | | | |
| LEAR 15 0842 0846 0849 S01 W83 4713 02 09.2 7 SN C 5.7 3 C 50 Y LEAR 15 0950 0951 0955 S02 W83 4713 02 09.2 5 SN C 7.4 3 C 27 GOES 15 1016 1203 1300 164 M 2.2 GOES 15 1304 1309 1316 12 M 1.6 GOES 15 1746 1749 1801 15 C 2.3 GOES 16 1134 1151 1156 22 C 1.0 GOES 16 2246 2357 2550 184 C 7.0 GOES 28 1456 1506 1510 14 C 1.0 | | | | | | 1 | | | | | | | | | |
| GOES 15 1016 1203 1300 164 M 2.2 GOES 15 1304 1309 1316 12 M 1.6 GOES 15 1746 1749 1801 15 C 2.3 GOES 16 1134 1151 1156 22 C 1.0 GOES 16 2246 2357 2550 184 C 7.0 GOES 28 1456 1506 1510 14 C 1.0 | | 0846 0849 | | | | 9.2 | 7 | SN (| C 5.7 | 3 | | | | | |
| GOES 15 1304 1309 1316 GOES 15 1746 1749 1801 15 C 2.3 GOES 16 1134 1151 1156 22 C 1.0 GOES 16 2246 2357 2550 184 C 7.0 GOES 28 1456 1506 1510 14 C 1.0 | | | S02 W83 | 4713 | 02 (| | | | | | C | | 27 | | Υ |
| GOES 16 1134 1151 1156 22 C 1.0 GOES 16 2246 2357 2550 184 C 7.0 GOES 28 1456 1506 1510 14 C 1.0 | | | | | | | | | | | | | | | |
| GOES 16 2246 2357 2550 184 C 7.0 GOES 28 1456 1506 1510 14 C 1.0 | GOES 15 1746 | 1749 1801 | | | | | 15 | (| C 2.3 | | | | | | |
| GOES 16 2246 2357 2550 184 C 7.0 GOES 28 1456 1506 1510 14 C 1.0 | GOES 16 1134 | 1151 1156 | | | | | 22 | (| 0 1.0 | | | | | | |
| 0000 10 1170 1770 1770 | | | | | | 1 | 184 | (| C 7.0 | | | | | | |
| *************************************** | | | | | | | | | | | | | | | |

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

FEBRUARY 1986

HOUR-UT
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



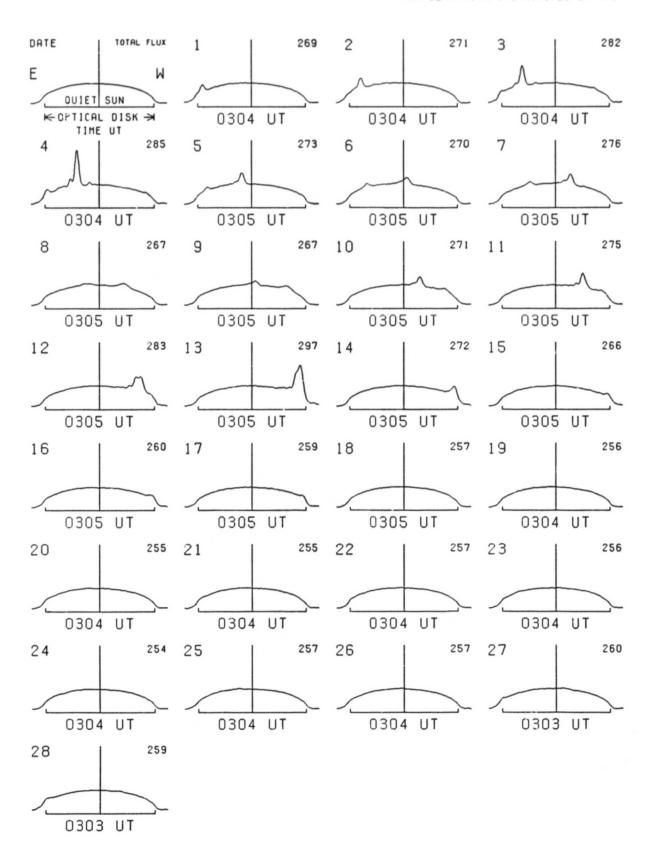
Times of no flare patrol, shown here as shaded areas, combine reports from the observatories listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind, that is, of neither visual nor cirematographic; portions of a panel with only the bottom half shaded mark times of strictly visual patrol.

Holloman Hurbanovo Istanbul Learmonth Mitaka Palehau Peking Purple Mt. Ramey Wendelstein

EAST-WEST SOLAR SCANS FEBRUARY 1986

TOYOKAWA.JAPAN

FAN BEAM WITH 1.1 MINUTES OF ARC



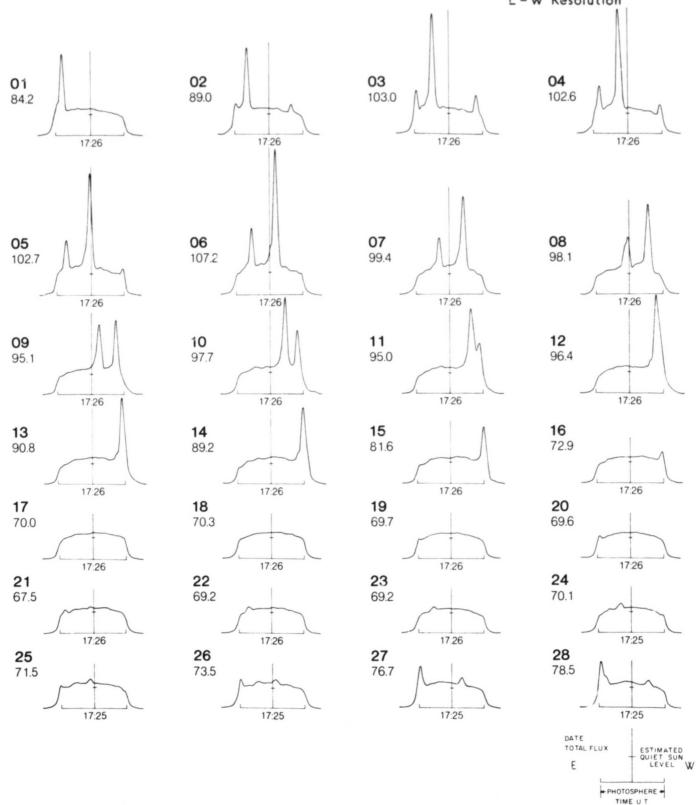
EAST-WEST SOLAR SCANS

FEBRUARY 1986

ALGONQUIN RADIO OBSERVATORY

CANADA

10.7 cm
Fan Beam with 1.5 minutes of arc
E-W Resolution



SOLAR RADIO EMISSION SELECTED FIXED FREQUENCY EVENTS

FEBRUARY 1986

| | | | Start | May Imum | Duration | Poak | Density | | |
|-----|------------------------|----------------|------------------|--|--------------|------------|------------|-----|------------------------------------|
| Day | Freq Sta | Туре | (UT) | (UT) | (Min) | (10 -22 | W/m 2 Hz) | Int | Remarks |
| 01 | 2800 OTTA | 240 R | 1653.0 | 1700.0 | 7.0 | 1.2 | 0.6 | | |
| | 2800 OTTA | 20 GRF | 1830.0 | 1847.0 | 40.0 | 1.4 | 0.5 | | |
| | 2695 PENT | 20 GRF | 2120.0 | 1700.0 1847.0 2125.0 | 20.0 | 1.6 | 0.8 | | |
| 0.0 | | | | | - | | | | |
| 02 | 2800 OTTA | 8 S 4 S/F | 1543.2 | 1543.3 | **7 | 6.4 | 2.1 | | |
| | | 29 PBI | 1654 0 | 1654 0 | 20.0 | 25.0 | 1.3 | | |
| | 2800 OTTA | | 1935.0 | 2057.0 | 205.00 | 12.6 | 1.0 | | |
| | 2800 OTTA | 1 S | 2028.0 | 2030.0 | 4.0 | 2.0 | 1.4 | | |
| | 2695 PENT | 1 5 | 2202.0 | 1543,3 1652,1 1654,0 2057,0 2030,0 2204,0 | 8.0 | 2.4 | 1.2 | | |
| 03 | 2800 OTTA | 46F C | 1538.0 | 1539.5 | 17.0 | 23.2 | 10.0 | | |
| | 2800 OTTA | 30 PBI | 1555.0 | 1555.0 | 35.0 | 4.0 | 2.4 | | |
| | 2800 OTTA | 21 GRF | 1600.0 | 1604.0 | 12.0 | 2.0 | 1.0 | | |
| | 2800 OTTA | 28 PRF | 1723.8 | 1726.0 | 7.2 | 4.6 | 1.2 | | |
| | 2800 OTTA | 4 S/F | 1731.0 | 1733.0 | 7. 0 | 28.4 | 14.0 | | |
| | 2800 OTTA | 30 PBI | 1738.0 | 1738.0 | 18.0 | 4.0 | 2.0 | | |
| | 2800 OTTA | 1 S | 1740.7 | 1741.0 | 2.0 | 2.0 | 1.0 | | |
| | 2800 OTTA | 1 S | 1909.0 | 1909.7 | 5.0 | 3.4 | 1.1 | | |
| | 2800 OTTA | 2 S/F | 1958.0 | 2000.0 | 8.0 | 2.0 | 0.8 | | |
| | 2800 011A | 40F C | 2036.7 | 2042.5 | 86.5 | 500.0 | 65.0 | | QL=6 ST=3 TYP=6 |
| | 2695 SGMR | 47 GB | 2040. 1 | 2042.6 | | 210.0 | | | QL=6 ST=3 TYP=5 |
| | 2695 SGMR | 47 GB | 2115.1 | 2115.6 | 1. OD | 61.0 | | | QL=6 ST=2 TYP=5 |
| | 2800 OTTA | 29 PBI | 2203.0 | 1539.5 1555.0 1604.0 1606.5 1726.0 1733.0 1738.0 1741.0 1909.7 2000.0 2042.5 2042.6 2115.6 2203.0 | 90.0D | 25.7 | | | |
| 04 | 8800 LEAR | 47 GB | 0445.3 | 0445.6 | 1.8 | 110.0 | | | QL=6 ST=2 TYP=5 |
| | | 47 GB | 0516.1 | 0516.1 | • 5 | 51.0 | | | QL=6 ST=2 TYP=5 |
| | | 8 S | 0521.6 | 0521.8 | 4 | 13.0 | | | QL=6 ST=2 TYP=3 |
| | | 8 S 47 GB | 0527.1 | 0528.1 | 10.4 | 59.0 | | | QL=6 ST=2 TYP=3 QL=6 ST=2 TYP=5 |
| | | 47 GB | 0648.3 | 0649.1 | 3.5 | 189.0 | | | QL=6 ST=2 TYP=5 |
| | | 49 GB | 0734.1 | 0737.1 | 28.0 | 6700.0 | | | QL=6 ST=3 TYP=7 |
| | | 49 GB | 0734.3 | 0737.1 | 23.0 | 820.0 | | | QL=6 ST=3 TYP=7 |
| | | 47 GB | 1023.4 | 1027.1 | 25.0U | 1560.0 | | | |
| | 2800 OTTA | 20 GRF | 1355.0 | 1530.0 | 130.0 | 2.0 | 1.7 | | |
| | | 8 S 4 S/F | 1610.5 | 1610.9 | • 7 | 9.0 | 4.5 | | |
| | | 4 3/F 47 GB | 1649.1 | 1649.7 | 6.0 | 61.0 | 10.0 | | OL=6 ST=3 TYP=5 |
| | | 30 PBI | 1654.0 | 1654.0 | 70.0 | 4.2 | 1.8 | | QL-0 31-3 111-3 |
| | | 22 GRF | 1720.0 | 1723.0 | 20.0 | 2.4 | 1.4 | | |
| | | 20 GRF | 1930,0 | 1940.0 | 70.0 | 2.0 | 1.0 | | |
| | 2695 PENT | 4 S/F | 2215.5 | 0445.6 0516.1 0521.8 0528.1 0649.3 0649.1 0737.1 1027.1 1530.0 1610.9 1649.7 1649.3 1654.0 1723.0 1940.0 2216.9 | 5.5 | 32.0 | 8.4 | | |
| 05 | 8800 LEAR | | 0051.8 | 0052.1 0052.1 1244.0 | 3.5 | 78.0 | | | OL=6 ST=2 TYP=5 |
| | | 4 S/F 49 GB | 0051.8 1234.0 | 1244 0 | 5.0 | 2600.0 | | | QL=6 ST=2 TYP=3 QL=3 ST=2 TYP=6 |
| | 8400 BERN | 47 GB | 1234.0 | 1244.0 | 60. OU | 2300.0 | | | QL=3 31=2 11F=0 |
| | 2695 ATHN | 49 GB | 1234.0 | 1247.0 | 40.0 | 1199.0 | | | QL=3 ST=2 TYP=6 |
| | 8800 SGMR | 49 GB | 1246.1 | 1246.3 | 6.4 | 1600.0 | | | QL=6 ST=2 TYP=6 |
| | 2695 SGMR | 49 GB | 1246.1 | 1246.8 | 8.5 | 810.0 | | | QL=6 ST=2 TYP=6 |
| | 2800 OTTA | 00 001 | 1254.0 | 1710 0 | 16.0D | 87.0 | | | |
| | 2800 OTTA 2800 OTTA | 29 PBI 1 S | 1310.0 1441.7 | 1310.0 1443.0 | 90.0 7.0 | 10.2 | 4.7 0.8 | | |
| | 2800 OTTA | 20 GRF | 1515.0 | 1517.5 | 15.0 | 1.8 | 0.9 | | |
| | 2800 OTTA | 20 GRF | 1840.0 | 1910.0 | 80.0 | 1.6 | 0.9 | | |
| | 2695 PENT | 20 GRF | 2135.0 | 2205.0 | 70.0 | 2.8 | 1.0 | | |
| 06 | 8800 LEAR | 49 GB | 0617.5 | 0621.8 | 57.6 | 8800.0 | | | QL=6 ST=2 TYP=7 |
| | 2695 LEAR | 49 GB | 0618.1 | 0622.6 | 45.2 | 1300.0 | 2.2 | | QL=6 ST=2 TYP=7 |
| | 2800 OTTA | 21 GRF | 1400.0 | 1435.0 | 100.0 | 4.2 | 2.2 | | |
| | 2800 OTTA 2800 OTTA | 240AR 1 S | 1400.0 1527.7 | 1545.0 1527.7 | 105.0 1.5 | 2.0 2.0 | 1.0 1.0 | | |
| | 2800 OTTA | 3 S | 1725.0 | 1726.1 | 3.0 | 10.8 | 5. 2 | | |
| | 2800 OTTA | 30 PB1 | 1728.0 | 1728.0 | 140.0 | 3.0 | 1.5 | | |
| | 2800 OTTA | 20 GRF | 1733.0 | 1743.0 | 30.0 | 3.4 | 1.2 | | |
| | 2800 OTTA | 20 GRF | 1822.0 | 1825.5 | 20.0 | 2.8 | 1.0 | | |
| | 2800 OTTA | 21 GRF | 1905.0 | 1925.0 | 30.0 | 4.2 | 2.1 | | |
| | 2800 OTTA | 1 \$ | 1916.0 | 1917.0 | 7.0 | 5.6 | 1.9 | | |
| 07 | 2695 LEAR | 8 S | 0953, 1 | 0953.8 | •7 | 11.0 | | | QL=6 ST=2 TYP=3 |
| | | | | | | | | | |

SOLAR RADIO EMISSION SELECTED FIXED FREQUENCY EVENTS

FEBRUARY 1986

| Time of Cut | | | | | | | | | | |
|--|----|-----------|---------|--------|-----------------|----------|---------|------------|-----|------------------|
| Day Free Ste Type (UT) | | | | | Time of | | Flux | Density | | |
| 2895 ATHAN 49 GB 1015,0 1024,0 39.0 3199,0 0 0L-6 ST-3 TYP-6 8400 BERN 47 GB 1015,0 1024,0 39.0 3199,0 0 0L-6 ST-2 TYP-6 2800 OTTA 20 GBF 1720,0 1815,0 110,0 1.6 0.9 0.9 2800 OTTA 22 GBF 1720,0 1815,0 110,0 1.6 0.9 0.6 8 8800 LEAR 8 \$ \$ C239,6 0239,8 5.5 28,0 1.2 0.6 09 2800 OTTA 22 GBF 1740,0 1655,0 150,0 12,4 1,0 0.5 10 8800 ATHAN 4 \$ \$ 1645,0 1720,0 25,0 1.0 0.5 10 8800 ATHAN 4 \$ \$ 1645,0 1720,0 25,0 1,0 0.5 10 8800 ATHAN 4 \$ \$ 1645,0 1720,0 25,0 1,0 0.5 10 8800 ATHAN 4 \$ \$ 187,0 1655,0 123,0 34,0 1,8 22,0 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 22,0 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 22,0 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 22,0 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 43,0 23,0 4,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 43,0 23,0 4,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 43,0 23,0 4,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 43,0 23,0 4,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 47,0 850,0 209,0 0 0.4-6 ST=1 TYP-6 2695 GBB 20 | 0 | F C4 | T | | | Duration | Peak | Mean | 1-1 | |
| 2895 ATHAN 49 GB 1015,0 1024,0 39.0 3199,0 0 0L-6 ST-3 TYP-6 8400 BERN 47 GB 1015,0 1024,0 39.0 3199,0 0 0L-6 ST-2 TYP-6 2800 OTTA 20 GBF 1720,0 1815,0 110,0 1.6 0.9 0.9 2800 OTTA 22 GBF 1720,0 1815,0 110,0 1.6 0.9 0.6 8 8800 LEAR 8 \$ \$ C239,6 0239,8 5.5 28,0 1.2 0.6 09 2800 OTTA 22 GBF 1740,0 1655,0 150,0 12,4 1,0 0.5 10 8800 ATHAN 4 \$ \$ 1645,0 1720,0 25,0 1.0 0.5 10 8800 ATHAN 4 \$ \$ 1645,0 1720,0 25,0 1,0 0.5 10 8800 ATHAN 4 \$ \$ 1645,0 1720,0 25,0 1,0 0.5 10 8800 ATHAN 4 \$ \$ 187,0 1655,0 123,0 34,0 1,8 22,0 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 22,0 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 22,0 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 22,0 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1745,0 1655,0 123,0 34,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 43,0 23,0 4,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 43,0 23,0 4,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 43,0 23,0 4,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 43,0 23,0 4,0 1,8 2800 OTTA 20 GBF 1955,0 2016,5 47,0 850,0 209,0 0 0.4-6 ST=1 TYP-6 2695 GBB 20 | | | | | | (Min) | (10 -22 | $W/m^2 Hz$ | Int | Remarks |
| 08 8800 LEAR 8 S 0259.6 0239.8 1.5 28.0 | | | | 1012.0 | 1026.0 | 39.0 | 3199.0 | | | 01 =6 ST=3 TYP=6 |
| 08 8800 LEAR 8 S 0259.6 0239.8 1.5 28.0 | 0, | | | 1013.0 | 1024.1 | 75. OU | 2450.0 | | | QL-0 31-3 111-0 |
| 08 8800 LEAR 8 S 0259.6 0239.8 1.5 28.0 | | | | 1013.0 | 1027.0 | 43.0 | 3600.0 | | | OL=6 ST=2 TYP=6 |
| 08 8800 LEAR 8 S 0259.6 0239.8 1.5 28.0 | | 2800 OTTA | 20 GRF | 1720.0 | 1815.0 | 110.0 | 1.6 | 0.9 | | |
| 08 8800 LEAR 8 S 0259.6 0239.8 1.5 28.0 | | 2800 OTTA | 20 GRF | 2030.0 | 2038.0 | 25.0 | 1.2 | 0.6 | | |
| 2800 OTTA 22 GRF 1617.0 1635.0 150.0 2.4 1.0 2800 OTTA 22 GRF 1647.0 1720.0 35.0 2.0 1.0 2800 OTTA 20 GRF 1745.0 1720.0 35.0 2.0 1.0 2800 OTTA 20 GRF 1745.0 1635.0 1505.0 2.0 2800 OTTA 20 GRF 1547.0 1635.0 1525.0 34.0 1.8 2800 OTTA 28 PRE 1935.0 2016.5 43.0 25.0 1.8 2800 OTTA 28 PRE 1935.0 2016.5 43.0 25.0 1.8 2800 OTTA 47 GR 2018.0 2023.5 47.0 859.0 209.0 0.0 2695 SOMR 49 GR 2020.3 2023.3 740.0 209.0 0.0 2695 SOMR 49 GR 2020.8 2022.6 790.0 0.0 8800 SOMR 49 GR 2020.8 2022.6 790.0 0.0 2800 OTTA 27 PRI 2020.8 2023.5 1.7 2800 OTTA 29 PRI 2105.0 1655.0 21.0 0.0 2800 OTTA 29 PRI 2105.0 165.0 21.0 0.0 2800 OTTA 29 PRI 2105.0 1355.0 165.0 21.0 0.0 2800 OTTA 29 PRI 2105.0 1355.0 165.0 2.1 0.0 2800 OTTA 29 PRI 2105.0 1355.0 155.0 0.0 2800 OTTA 29 PRI 2105.0 1755.0 155.0 0.0 2800 OTTA 29 PRI 2105.0 1755.0 155.0 10.2 -5.2 2800 OTTA 29 PRI 21 GRF 2255.0 2350.0 60.00 10.6 0.0 2800 OTTA 29 PRI 21 GRF 2255.0 2350.0 60.00 10.6 0.0 2800 OTTA 29 GRF 1310.0 1044.0 9.0 36.0 3.0 2800 OTTA 29 GRF 1310.0 1355.0 165.0 2.2 1.0 2800 OTTA 29 GRF 1310.0 1355.0 165.0 2.2 1.0 2800 OTTA 20 GRF 1310.0 1355.0 165.0 2.2 1.0 2800 OTTA 20 GRF 1310.0 1355.0 165.0 2.2 1.0 2800 OTTA 20 GRF 1310.0 1355.0 165.0 2.2 1.0 2800 OTTA 20 GRF 1310.0 1355.0 165.0 2.2 1.0 2800 OTTA 20 GRF 1315.0 1355.0 165.0 2.2 1.0 2800 OTTA 20 GRF 1315.0 1355.0 165.0 2.2 1.0 2800 OTTA 20 GRF 1935.0 1355.0 165.0 2.0 1.0 2800 OTTA 20 GRF 1935.0 1355.0 165.0 2.0 1.0 2800 OTTA 20 GRF 1935.0 1355.0 165.0 2.0 1.0 2800 OTTA 20 GRF 1935.0 1355.0 165.0 2.0 1.0 2800 OTTA 20 GRF 1935.0 1355.0 165.0 2.0 1.0 2800 OTTA 20 GRF 1935.0 1355.0 165.0 2.0 1.0 2800 OTTA 20 GRF 1935.0 2120.0 20.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | | | | | | | | | | |
| 09 | 08 | | | | 0239.8 | 150.0 | 28.0 | 1.0 | | QL=6 ST=2 TYP=3 |
| 10 | | 2000 011A | 22 GRF | 1017.0 | 1039,0 | 150.0 | 2.4 | 1.0 | | |
| 10 | 09 | 2800 OTTA | 240 R | 1645.0 | 1720.0 | 35.0 | 2.0 | 1.0 | | |
| 10 | | 2800 OTTA | 20 GRF | | 1750.0 | 25.0 | 1.0 | 0.5 | | |
| 2995 SOMR 49 08 2202., 8 2023., 3 730.0 | | | | | | | | | | |
| 2995 SOMR 49 08 2202., 8 2023., 3 730.0 | 10 | | | | 0720.0 | 23.0 | 34.0 | | | QL=6 ST=2 TYP=3 |
| 2995 SOMR 49 08 2202., 8 2023., 3 730.0 | | | | | 2016.5 | 43.0 | 23.0 | 1.8 | | |
| 2995 SOMR 49 08 2202., 8 2023., 3 730.0 | | | | | 2023.5 | 47.0 | 850.0 | 209 0 | | |
| 2695 SGMR | | | | | 2023.3 | 47.0 | 740.0 | 203.0 | | OL =6 ST=1 TYP=6 |
| 8800 SGMR 49 68 2020, 8 2021, 5 2021, 5 2010, 0 105, 0 21, 0 9, 4 | | | | | | | | | | |
| 11 8800 LEAR 47 68 205,0 2105,0 165,0 21,0 9,4 | | | 49 GB | | | | | | | |
| 2695 LEAR 8 S 0355,6 0356,0 . 5 15,0 0,-5 2 2800 OTTA 260 FAL 1520,0 1755,0 155,0 10,2 -5,2 2 2695 PENT 240 R 2120,0 2150,0 30,0 3,4 1,7 2 2695 PENT 1 S 2811,5 2311,5 5,0 10,6 6,0 10,6 6 2695 PENT 1 S 2311,5 2311,5 5,0 10,6 6,0 3,0 5,2 7 12 8800 ATHN 47 GB 1044,0 1044,0 1,0 85,0 5,2 7 12 8800 ATHN 4 5/F 1059,0 1104,0 9,0 36,0 0 0L=1 ST=2 TYP=3 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 240 R 1700,0 1710,0 10,0 1,6 0,8 2800 OTTA 240 R 1700,0 1710,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1350,0 1855,0 185,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1350,0 1855,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1350,0 1855,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2205 SORR 49 08 1604,0 1605,1 1500,0 0,0 0,5 2800 OTTA 20 GRF 1715,0 1721,0 25,0 2,0 1,0 0,0 1,6 0,5 2800 OTTA 20 GRF 1715,0 1721,0 25,0 2,0 1,0 0,0 2,4 1,4 2200 OTTA 20 GRF 1715,0 1721,0 25,0 2,0 1,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1815,0 1522,0 10,0 10,0 1,5 2800 OTTA 27 GRF 1715,0 1721,0 1815,0 1522,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1815,0 1522,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1815,0 1522,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1915,0 152,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1915,0 152,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1915,0 152,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 1 | | 2800 OTTA | 29 PB I | 2105.0 | 2105.0 | 165.0 | 21.0 | 9.4 | | |
| 2695 LEAR 8 S 0355,6 0356,0 . 5 15,0 0,-5 2 2800 OTTA 260 FAL 1520,0 1755,0 155,0 10,2 -5,2 2 2695 PENT 240 R 2120,0 2150,0 30,0 3,4 1,7 2 2695 PENT 1 S 2811,5 2311,5 5,0 10,6 6,0 10,6 6 2695 PENT 1 S 2311,5 2311,5 5,0 10,6 6,0 3,0 5,2 7 12 8800 ATHN 47 GB 1044,0 1044,0 1,0 85,0 5,2 7 12 8800 ATHN 4 5/F 1059,0 1104,0 9,0 36,0 0 0L=1 ST=2 TYP=3 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 240 R 1700,0 1710,0 10,0 1,6 0,8 2800 OTTA 240 R 1700,0 1710,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1350,0 1855,0 185,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1350,0 1855,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1350,0 1855,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2200 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,4 2205 SORR 49 08 1604,0 1605,1 1500,0 0,0 0,5 2800 OTTA 20 GRF 1715,0 1721,0 25,0 2,0 1,0 0,0 1,6 0,5 2800 OTTA 20 GRF 1715,0 1721,0 25,0 2,0 1,0 0,0 2,4 1,4 2200 OTTA 20 GRF 1715,0 1721,0 25,0 2,0 1,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1815,0 1522,0 10,0 10,0 1,5 2800 OTTA 27 GRF 1715,0 1721,0 1815,0 1522,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1815,0 1522,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1815,0 1522,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1915,0 152,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1915,0 152,0 10,0 0,5 2800 OTTA 27 GRF 1715,0 1721,0 1915,0 152,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 1 | | 2022 1515 | 47 00 | | | 05.0 | | | | |
| 2695 PENT 240 R 210,0 210,0 30,0 3,4 1,7 2695 PENT 1 S 2511,5 2513,0 5,0 66,00 10,6 2695 PENT 40 F 2520,0 2530,0 56,0 66,00 3,0 2695 PENT 40 F 2520,0 2524,5 8,0 5,2 12 8800 ATHN 47 GB 1044,0 1044,0 1,0 85,0 0 0L=1 ST=2 TYP=5 2800 OTTA 22 GRF 1310,0 1555,0 185,0 4,2 2,1 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 240 R 1700,0 1710,0 10,0 1,6 0,8 2800 OTTA 240 R 125,0 1855,0 185,0 4,2 1,4 2800 OTTA 240 R 125,0 1855,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1355,0 1220,0 220,00 6,2 13 2695 LEAR 8 S 0234,0 0234,1 5 13,0 0 0,6 0,8 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1590,0 1595,0 30,0 2,4 1,2 2800 OTTA 21 GRF 1715,0 1721,0 25,0 0,0 1,0 2800 OTTA 21 GRF 1715,0 1721,0 25,0 1,0 0,5 2800 OTTA 22 GRF 1590,0 1815,0 1606,1 1600,0 QL=6 ST=1 TYP=7 2800 OTTA 20 GRF 1790,0 1815,0 15,0 1721,0 1,5 1,8 2800 OTTA 21 GRF 1715,0 1721,0 25,0 2,0 1,0 2800 OTTA 22 GRF 1590,0 1815,0 1600,0 QL=6 ST=1 TYP=7 2800 OTTA 27 GRF 1990,0 5,0 1600,0 1,0 5 2800 OTTA 24 R 1990,0 5,0 1615,0 65,0 2,0 1,0 5 2800 OTTA 24 R 1990,0 5,0 25,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 210,0 1615,0 -2,0 1,5 2800 OTTA 24 R 1990,0 5,0 25,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 25 RF 1950,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 26 RF 170,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 26 RF 170,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 26 RF 170,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 26 RF 14 12,0 14,0 14,0 14,0 14,0 14,0 14,0 14,0 14 | 11 | | | | | 25.0 | 55.0 | | | |
| 2695 PENT 240 R 210,0 210,0 30,0 3,4 1,7 2695 PENT 1 S 2511,5 2513,0 5,0 66,00 10,6 2695 PENT 40 F 2520,0 2530,0 56,0 66,00 3,0 2695 PENT 40 F 2520,0 2524,5 8,0 5,2 12 8800 ATHN 47 GB 1044,0 1044,0 1,0 85,0 0 0L=1 ST=2 TYP=5 2800 OTTA 22 GRF 1310,0 1555,0 185,0 4,2 2,1 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 240 R 1700,0 1710,0 10,0 1,6 0,8 2800 OTTA 240 R 125,0 1855,0 185,0 4,2 1,4 2800 OTTA 240 R 125,0 1855,0 10,0 1,6 0,8 2800 OTTA 20 GRF 1355,0 1220,0 220,00 6,2 13 2695 LEAR 8 S 0234,0 0234,1 5 13,0 0 0,6 0,8 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1550,0 1555,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1590,0 1595,0 30,0 2,4 1,2 2800 OTTA 21 GRF 1715,0 1721,0 25,0 0,0 1,0 2800 OTTA 21 GRF 1715,0 1721,0 25,0 1,0 0,5 2800 OTTA 22 GRF 1590,0 1815,0 1606,1 1600,0 QL=6 ST=1 TYP=7 2800 OTTA 20 GRF 1790,0 1815,0 15,0 1721,0 1,5 1,8 2800 OTTA 21 GRF 1715,0 1721,0 25,0 2,0 1,0 2800 OTTA 22 GRF 1590,0 1815,0 1600,0 QL=6 ST=1 TYP=7 2800 OTTA 27 GRF 1990,0 5,0 1600,0 1,0 5 2800 OTTA 24 R 1990,0 5,0 1615,0 65,0 2,0 1,0 5 2800 OTTA 24 R 1990,0 5,0 25,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 210,0 1615,0 -2,0 1,5 2800 OTTA 24 R 1990,0 5,0 25,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 24 R 1990,0 5,0 25,0 2,0 1,0 0,5 2800 OTTA 25 RF 1950,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 26 RF 170,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 26 RF 170,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 26 RF 170,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 26 RF 14 12,0 14,0 14,0 14,0 14,0 14,0 14,0 14,0 14 | | | | | 1755 0 | 155.0 | 10.0 | -5 2 | | QL=6 51=2 11P=3 |
| 2699 PENN 1 S 2210,0 2224,5 8,0 5,2 12 8800 ATHN 47 GB 1044,0 1044,0 1,0 85,0 0 0L=1 ST=2 TYP=5 8800 ATHN 4 S/F 1059,0 1104,0 9,0 36,0 0 0L=1 ST=2 TYP=5 2800 OTTA 22 GRF 1310,0 1355,0 185,0 4,2 2,1 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 1 GRF 1715,0 1725,0 50,0 3,2 1,0 2800 OTTA 240 R 1825,0 1835,0 10,0 1,6 0,8 2800 OTTA 21 GRF 1935,0 2120,0 220,00 6,2 13 2695 LEAR 8 S 0234,0 0234,1 3 13,0 0 0L=6 ST=2 TYP=3 2800 OTTA 21 GRF 1315,0 1328,0 20,0 4,0 2,0 2800 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 21 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 22 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 22 GRF 1350,0 1355,0 10,0 1,4 1,2 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 21 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 21 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 21 GRF 1715,0 1721,0 25,0 1600,0 0,7 2800 OTTA 27 GRF 1950,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 27 GRF 1950,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 28 GRF 1750,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 28 R 290,0 12,0 1,5 2800 OTTA 28 R 290,0 12,0 1,5 2800 OTTA 28 R 290,0 0 12,0 1,0 0,5 2800 OTTA 28 R 290,0 0 12,0 1,0 0,5 2800 OTTA 28 R 290,0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | 2150.0 | 30.0 | 3.4 | 1.7 | | |
| 2699 PENN 1 S 2210,0 2224,5 8,0 5,2 12 8800 ATHN 47 GB 1044,0 1044,0 1,0 85,0 0 0L=1 ST=2 TYP=5 8800 ATHN 4 S/F 1059,0 1104,0 9,0 36,0 0 0L=1 ST=2 TYP=5 2800 OTTA 22 GRF 1310,0 1355,0 185,0 4,2 2,1 2800 OTTA 240 R 1700,0 1710,0 10,0 2,8 1,0 2800 OTTA 1 GRF 1715,0 1725,0 50,0 3,2 1,0 2800 OTTA 240 R 1825,0 1835,0 10,0 1,6 0,8 2800 OTTA 21 GRF 1935,0 2120,0 220,00 6,2 13 2695 LEAR 8 S 0234,0 0234,1 3 13,0 0 0L=6 ST=2 TYP=3 2800 OTTA 21 GRF 1315,0 1328,0 20,0 4,0 2,0 2800 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 21 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 22 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 22 GRF 1350,0 1355,0 10,0 1,4 1,2 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 21 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 21 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 22 GRF 1350,0 1355,0 10,0 0,4 1,0 2,0 2800 OTTA 21 GRF 1715,0 1721,0 25,0 1600,0 0,7 2800 OTTA 27 GRF 1950,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 27 GRF 1950,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 28 GRF 1750,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 28 R 290,0 12,0 1,5 2800 OTTA 28 R 290,0 12,0 1,5 2800 OTTA 28 R 290,0 0 12,0 1,0 0,5 2800 OTTA 28 R 290,0 0 12,0 1,0 0,5 2800 OTTA 28 R 290,0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | 2255.0 | 2330.0 | 60. OD | 10.6 | | | |
| 12 | | | | 2311.5 | 2313.0 | 5.0 | | 3.0 | | |
| 12 | | | 40 F | 2320.0 | 2324.5 | 8.0 | | | | |
| 2800 0TTA 240 R 1825,0 1825,0 1835,0 10,0 1,6 0,8 2800 0TTA 240 R 1825,0 1835,0 10,0 1,6 0,8 2800 0TTA 20 GRF 1935,0 2120,0 220,00 6,2 13 2695 LEAR 8 S 0234,0 0234,1 ,3 13,0 Q QL=6 ST=2 TYP=3 2800 0TTA 21 GRF 1315,0 1328,0 205,0 4,0 2,0 2800 0TTA 20 GRF 1350,0 1328,0 205,0 4,0 2,0 2800 0TTA 20 GRF 1350,0 1328,0 205,0 4,0 2,0 2800 0TTA 20 GRF 1350,0 1328,0 205,0 4,0 2,4 1,2 2800 0TTA 20 GRF 1440,0 1445,0 30,0 2,4 1,4 2695 SGMR 49 G8 1604,6 1605,3 189,0 QL=6 ST=1 TYP=7 8800 SGMR 49 G8 1604,6 1606,1 1600,0 QL=6 ST=1 TYP=7 2800 0TTA 2 GRF 1715,0 1721,0 25,0 0,0 7 2800 0TTA 2 GRF 1715,0 1721,0 25,0 1,0 1,0 1,5 1,8 2800 0TTA 2 GRF 1750,0 1815,0 65,0 2,0 1,0 0,5 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 0,5 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 0,5 2800 0TTA 24 R 1950,0 2010,0 20,0 2,0 1,5 2800 0TTA 27 RF 1950,0 2010,0 20,0 2,0 1,5 2800 0TTA 28 R 2010,0 55,0 2,0 1,5 2800 0TTA 29 R 2010,0 55,0 2,0 1,5 2800 0TTA 26 FAL 2105,0 2120,0 15,0 -2,0 -1,5 2695 PENT 3 S 2315,0 2315,5 47,0 107,0 17,8 2695 LEAR 47 G8 2315,1 2315,5 1,9 110,0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,3 5,5 67,0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,3 5,5 67,0 QL=6 ST=2 TYP=5 2800 0TTA 26 FAL 1315,0 0991,0 120,00 3600,0 QL=6 ST=2 TYP=5 2800 0TTA 27 RF 1630,0 1700,0 80,0 1,8 1,2 2800 0TTA 28 GRF 1630,0 1700,0 120,00 3600,0 QL=6 ST=2 TYP=5 2800 0TTA 26 FAL 1315,0 1600,0 0921,0 180,0 -12,6 -6,0 QL=6 ST=3 TYP=6 2800 0TTA 26 FAL 1315,0 1600,0 0921,0 180,0 -1,8 1,2 2800 0TTA 26 FAL 1315,0 1600,0 0921,0 120,00 3600,0 QL=6 ST=3 TYP=6 2800 0TTA 26 FAL 1315,0 1600,0 0921,0 120,00 3600,0 QL=6 ST=3 TYP=6 2800 0TTA 26 FAL 1315,0 1600,0 0921,0 120,00 3600,0 QL=6 ST=3 TYP=6 2800 0TTA 26 FAL 1315,0 1600,0 0950,0 2,0 68,0 QL=6 ST=1 TYP=5 2800 0TTA 26 FAL 1315,0 1600,0 0950,0 2,0 68,0 QL=6 ST=1 TYP=5 2800 0TTA 4 S/F 1544,2 1545,2 5,0 20,4 5,0 2 2800 0TTA 4 S/F 1630,0 1700,0 80,0 1,8 1,2 2 2800 0TTA 4 S/F 1630,0 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 2800 0TTA 4 S/F 1630,0 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 2800 0TTA 4 S/F 1630,0 0950,0 0950,0 2,0 | | 0000 ATIM | 47 00 | 1011 0 | 1011.0 | | 05.0 | | | |
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| 2800 0TTA 240 R 1825,0 1825,0 1835,0 10,0 1,6 0,8 2800 0TTA 240 R 1825,0 1835,0 10,0 1,6 0,8 2800 0TTA 20 GRF 1935,0 2120,0 220,000 6,2 130 0TTA 20 GRF 1935,0 2120,0 220,000 6,2 130 0TTA 20 GRF 1315,0 1328,0 205,0 4,0 2,0 2800 0TTA 20 GRF 1315,0 1328,0 205,0 4,0 2,0 2800 0TTA 20 GRF 1350,0 1328,0 205,0 4,0 2,4 1,2 2800 0TTA 20 GRF 1440,0 1445,0 30,0 2,4 1,4 1,4 2695 SGMR 49 GB 1604,6 1605,3 189,0 0 0146 ST=1 TYP=7 2800 0TTA 21 GRF 1715,0 1721,0 25,0 0,7 2800 0TTA 22 S/F 1718,7 1719,0 1,5 1,8 2800 0TTA 22 GRF 1715,0 1721,0 25,0 2,0 0,7 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 2800 0TTA 24 R 1950,0 2010,0 20,0 2,0 1,5 2800 0TTA 24 R 1950,0 2010,0 20,0 2,0 1,5 2800 0TTA 26 FAL 2105,0 2120,0 15,0 -2,0 -1,5 2695 PENT 3 S 2315,0 2315,5 47,0 107,0 17,8 2695 LEAR 47 GB 2315,3 2315,3 2315,3 5 67,0 0 0,=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,3 2315,5 7 98,0 0 0,=6 ST=2 TYP=5 2800 0TTA 4 S/F 1544,2 1355,0 501,8 800 EAR 47 GB 2315,3 2315,3 2315,5 7 98,0 0 0,=6 ST=2 TYP=5 2800 0TTA 4 S/F 1544,2 1355,0 60,0 120,0 3500,0 8800 0TTA 4 S/F 1544,2 1355,0 60,0 120,0 3500,0 0 0,=6 ST=2 TYP=5 2800 0TTA 4 S/F 1544,2 1355,0 501,8 800 EAR 47 GB 2315,3 0845,6 10,0 0 45,0 800 0TTA 4 S/F 1544,2 1355,0 501,8 800 EAR 8 S 0501,6 0501,8 800 0TTA 4 GB 80 0BERN 3 S 0949,3 0950,0 0950,0 2,0 52,0 0 0,=6 ST=2 TYP=5 800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1, | | | | | 1710.0 | 10.0 | 2 8 | | | |
| 2800 0TTA 240 R 1825,0 1825,0 1835,0 10,0 1,6 0,8 2800 0TTA 240 R 1825,0 1835,0 10,0 1,6 0,8 2800 0TTA 20 GRF 1935,0 2120,0 220,000 6,2 130 0TTA 20 GRF 1935,0 2120,0 220,000 6,2 130 0TTA 20 GRF 1315,0 1328,0 205,0 4,0 2,0 2800 0TTA 20 GRF 1315,0 1328,0 205,0 4,0 2,0 2800 0TTA 20 GRF 1350,0 1328,0 205,0 4,0 2,4 1,2 2800 0TTA 20 GRF 1440,0 1445,0 30,0 2,4 1,4 1,4 2695 SGMR 49 GB 1604,6 1605,3 189,0 0 0146 ST=1 TYP=7 2800 0TTA 21 GRF 1715,0 1721,0 25,0 0,7 2800 0TTA 22 S/F 1718,7 1719,0 1,5 1,8 2800 0TTA 22 GRF 1715,0 1721,0 25,0 2,0 0,7 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 2800 0TTA 24 R 1950,0 2010,0 20,0 2,0 1,5 2800 0TTA 24 R 1950,0 2010,0 20,0 2,0 1,5 2800 0TTA 26 FAL 2105,0 2120,0 15,0 -2,0 -1,5 2695 PENT 3 S 2315,0 2315,5 47,0 107,0 17,8 2695 LEAR 47 GB 2315,3 2315,3 2315,3 5 67,0 0 0,=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,3 2315,5 7 98,0 0 0,=6 ST=2 TYP=5 2800 0TTA 4 S/F 1544,2 1355,0 501,8 800 EAR 47 GB 2315,3 2315,3 2315,5 7 98,0 0 0,=6 ST=2 TYP=5 2800 0TTA 4 S/F 1544,2 1355,0 60,0 120,0 3500,0 8800 0TTA 4 S/F 1544,2 1355,0 60,0 120,0 3500,0 0 0,=6 ST=2 TYP=5 2800 0TTA 4 S/F 1544,2 1355,0 501,8 800 EAR 47 GB 2315,3 0845,6 10,0 0 45,0 800 0TTA 4 S/F 1544,2 1355,0 501,8 800 EAR 8 S 0501,6 0501,8 800 0TTA 4 GB 80 0BERN 3 S 0949,3 0950,0 0950,0 2,0 52,0 0 0,=6 ST=2 TYP=5 800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1,8 1,2 2800 0TTA 4 S/F 1630,0 1700,0 350,0 1, | | | | | 1725.0 | 50.0 | 3. 2 | | | |
| 2800 OTTA 240 R 1825.0 1835.0 10.0 1.6 0.8 2800 OTTA 20 GRF 1935.0 2120.0 220.00 6.2 15 2695 LEAR 8 S 0234.0 0234.1 .3 13.0 | | | | | | | | | | |
| 2800 OTTA 20 GRF 1935,0 2120,0 220,00 6,2 13 | | | 240 R | | 1835.0 | 10.0 | | | | |
| 2800 OTTA 21 GRF 1315.0 1328.0 205.0 4.0 2.0 2800 OTTA 20 GRF 1350.0 1355.0 30.0 2.4 1.2 2800 OTTA 20 GRF 1440.0 1445.0 30.0 2.4 1.4 2695 SGMR 49 GB 1604.6 1605.3 189.0 QL=6 ST=1 TYP=7 2800 OTTA 21 GRF 1715.0 1721.0 25.0 2.0 0.7 2800 OTTA 21 GRF 1715.0 1721.0 25.0 2.0 1.0 2800 OTTA 22 GRF 1710.0 1815.0 65.0 2.0 1.0 2800 OTTA 20 GRF 1920.0 1815.0 65.0 2.0 1.0 2800 OTTA 20 GRF 1920.0 1935.0 25.0 1.0 0.5 2800 OTTA 27 RF 1950.0 2010.0 20.0 2.0 1.6 2800 OTTA 24 R 1950.0 2010.0 20.0 2.0 1.5 2800 OTTA 24 R 2010.0 55.0 2.0 1.5 2800 OTTA 26 FAL 2105.0 2120.0 15.0 2.0 17.5 2695 PENT 3 S 2315.0 2315.5 1.9 110.0 0.17.0 17.8 2695 LEAR 47 GB 2315.3 2315.5 1.9 110.0 0.1 17.8 2695 PALE 47 GB 2315.3 2315.5 1.9 110.0 0.1 17.8 2695 PALE 47 GB 2315.3 2315.5 1.9 110.0 0.1 17.8 2695 PALE 47 GB 2315.3 2315.5 1.9 110.0 0.1 17.8 2695 PALE 47 GB 2315.3 2315.5 5 7 98.0 0 0TTA 26 FAL 1315.0 1200.0 1200.0 3600.0 00.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | | 2800 OTTA | 20 GRF | 1935.0 | 2120.0 | 220.0D | 6, 2 | | | |
| 2800 OTTA 21 GRF 1315.0 1328.0 205.0 4.0 2.0 2800 OTTA 20 GRF 1350.0 1355.0 30.0 2.4 1.2 2800 OTTA 20 GRF 1440.0 1445.0 30.0 2.4 1.4 2695 SGMR 49 GB 1604.6 1605.3 189.0 QL=6 ST=1 TYP=7 2800 OTTA 21 GRF 1715.0 1721.0 25.0 2.0 0.7 2800 OTTA 21 GRF 1715.0 1721.0 25.0 2.0 1.0 2800 OTTA 22 GRF 1710.0 1815.0 65.0 2.0 1.0 2800 OTTA 20 GRF 1920.0 1815.0 65.0 2.0 1.0 2800 OTTA 20 GRF 1920.0 1935.0 25.0 1.0 0.5 2800 OTTA 27 RF 1950.0 2010.0 20.0 2.0 1.6 2800 OTTA 24 R 1950.0 2010.0 20.0 2.0 1.5 2800 OTTA 24 R 2010.0 55.0 2.0 1.5 2800 OTTA 26 FAL 2105.0 2120.0 15.0 2.0 17.5 2695 PENT 3 S 2315.0 2315.5 1.9 110.0 0.17.0 17.8 2695 LEAR 47 GB 2315.3 2315.5 1.9 110.0 0.1 17.8 2695 PALE 47 GB 2315.3 2315.5 1.9 110.0 0.1 17.8 2695 PALE 47 GB 2315.3 2315.5 1.9 110.0 0.1 17.8 2695 PALE 47 GB 2315.3 2315.5 1.9 110.0 0.1 17.8 2695 PALE 47 GB 2315.3 2315.5 5 7 98.0 0 0TTA 26 FAL 1315.0 1200.0 1200.0 3600.0 00.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | | 2605 1540 | 0 0 | 0074 0 | 0074 4 | | 17.0 | | | 01 6 67 0 740 7 |
| 2800 OTTA 20 GRF 1350,0 1355,0 30,0 2,4 1,2 2800 OTTA 20 GRF 1440,0 1445,0 30,0 2,4 1,4 2695 SGMR 49 GB 1604,6 1605,3 189,0 QL=6 ST=1 TYP=7 8800 SGMR 49 GB 1604,6 1606,1 1600,0 QL=6 ST=1 TYP=7 2800 OTTA 21 GRF 1715,0 1721,0 25,0 2,0 0,7 2800 OTTA 22 GRF 1718,7 1719,0 1,3 1,8 1,8 2800 OTTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 0,5 2800 OTTA 20 GRF 1920,0 1835,0 25,0 1,0 0,5 2800 OTTA 27 RF 1950,0 90,0 2,0 1,6 2800 OTTA 24 R 1950,0 2010,0 20,0 2,0 1,5 2800 OTTA 24 R 1950,0 2100,0 55,0 2,0 2800 OTTA 26 FAL 2105,0 2120,0 15,0 -2,0 -1,5 2695 PENT 3 S 2315,0 2315,5 47,0 107,0 17,8 2695 LEAR 47 GB 2315,1 2315,5 1,9 110,0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,3 5 67,0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,5 7 98,0 QL=6 ST=2 TYP=5 2695 OTTA 26 FAL 1315,0 1600,0 165,0 -12,6 -6,0 2800 OTTA 26 FAL 1315,0 1600,0 165,0 -12,6 -6,0 2800 OTTA 26 FAL 1845,0 1940,0 55,0 -3,8 -2,5 15 2695 LEAR 47 GB 0501,5 0501,8 61,0 QL 45,0 2800 OTTA 26 FAL 1845,0 1940,0 55,0 -3,8 -2,5 15 2695 LEAR 47 GB 0501,5 0501,8 61,0 QL 45,0 2800 OTTA 26 FAL 1845,0 1940,0 55,0 -3,8 -2,5 16 2695 ATHN 49 GB 0950,0 0950,0 2,0 68,0 QL=1 ST=2 TYP=5 8800 LEAR 8 S 0501,6 0501,8 62,0 QL=6 ST=1 TYP=3 8800 LEAR 8 S 0501,6 0501,8 62,0 QL=6 ST=1 TYP=3 8800 LEAR 8 S 0501,6 0501,8 62,0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501,6 0501,8 62,0 QL=6 ST=1 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950,0 0950,0 2,0 68,0 QL=6 ST=2 TYP=5 | 13 | | | | | | 13.0 | 2.0 | | QL=6 51=2 11P=3 |
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| 2800 0TTA 20 GRF 1750,0 1815,0 65,0 2,0 1,0 2800 0TTA 20 GRF 1750,0 1935,0 25,0 1,0 0,5 2800 0TTA 27 RF 1950,0 90,0 2,0 1,6 2800 0TTA 27 RF 1950,0 90,0 2,0 1,6 2800 0TTA 24 R 1950,0 2010,0 20,0 2,0 1,5 2800 0TTA 24P R 2010,0 55,0 2,0 2800 0TTA 24P R 2010,0 150,0 20,0 2,0 1,5 2695 PENT 3 S 2315,0 2315,5 47,0 107,0 17.8 2695 LEAR 47 GB 2315,1 2315,5 1,9 110,0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,3 5 67,0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,5 7 98,0 0 0L=2 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,5 7 98,0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,5 7 98,0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,5 7 98,0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,5 7 98,0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315,3 2315,5 7 98,0 0 0L=6 ST=3 TYP=6 2800 0TTA 26A FAL 1315,0 1600,0 165,0 -12,6 -6.0 2800 0TTA 26A FAL 1315,0 1600,0 165,0 -12,6 -6.0 2800 0TTA 26A FAL 1315,0 1600,0 165,0 -12,6 -6.0 2800 0TTA 26A FAL 1315,0 1600,0 165,0 -12,6 -6.0 2800 0TTA 26A FAL 1345,0 1940,0 55,0 -3,8 -2.5 | | | | | | 25.0 | 2.0 | 0.7 | | |
| 2800 0TTA 27 RF 1950.0 90.0 2.0 1.6 2800 0TTA 24 R 1950.0 2010.0 20.0 2.0 1.6 2800 0TTA 24 R 29 R 2010.0 55.0 2.0 2.0 2800 0TTA 24 R 2010.0 55.0 2.0 2800 0TTA 26 FAL 2105.0 2120.0 15.0 -2.0 -1.5 2695 PENT 3 S 2315.0 215.5 47.0 107.0 17.8 2695 LEAR 47 GB 2315.1 2315.5 1.9 110.0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.3 5 67.0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 0 0L=6 ST=2 TYP=5 2695 PALE 47 GB 0906.0 0921.0 84.0 2100.0 0L=6 ST=3 TYP=6 8400 BERN 47 GB 0906.0 0921.0 84.0 4300.0 0L=6 ST=3 TYP=6 2800 0TTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 0TTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 0TTA 26A FAL 1344.2 1545.2 5.0 20.4 5.2 2800 0TTA 26A FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2800 0TTA 26A FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 45.0 0L=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 0L=6 ST=1 TYP=5 8800 BERN 47 GB 0996.0 0990.3 600.0 45.0 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0940.3 0950.3 6.0 45.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 0L=6 ST=2 TYP=5 88 | | | | | | 1.5 | 1.8 | | | |
| 2800 OTTA 27 RF 1950.0 2010.0 90.0 2.0 1.66 2800 OTTA 24 R 1950.0 2010.0 55.0 2.0 1.5 2800 OTTA 24P R 2010.0 55.0 2.0 2.0 2.0 1.5 2800 OTTA 26 FAL 2105.0 2120.0 15.0 -2.0 -1.5 2695 PENT 3 S 2315.0 2315.5 47.0 107.0 17.8 2695 LEAR 47 GB 2315.1 2215.5 1.9 110.0 OL=6 ST=2 TYP=5 8800 LEAR 47 GB 2315.3 2315.5 .5 67.0 OL=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 OL=6 ST=2 TYP=5 8400 BERN 47 GB 0906.0 0921.0 84.0 2100.0 OL=6 ST=2 TYP=5 8400 BERN 47 GB 0906.0 0921.0 120.00 3600.0 OL=6 ST=3 TYP=6 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 26 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 OL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 OL=6 ST=1 TYP=3 8400 BERN 3 S 0949.3 0950.0 2.0 68.0 OL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 OL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 OL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 OL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 OL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 OL=6 ST=2 TYP=5 | | | | | | 65.0 | 2.0 | | | |
| 2800 OTTA | | | | | 1955.0 | | | | | |
| 2800 OTTA 24P R 2010.0 | | | | | 2010.0 | | | | | |
| 2800 OTTA 26 FAL 2105.0 2120.0 15.0 -2.0 -1.5 2695 PENT 3 S 2315.0 2315.5 47.0 107.0 17.8 2695 PENT 3 S 2315.1 2315.5 1.9 110.0 QL=6 ST=2 TYP=5 8800 LEAR 47 GB 2315.3 2315.3 .5 67.0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 0906.0 0921.0 84.0 2100.0 GL=6 ST=2 TYP=5 2695 PALE 47 GB 0906.0 0921.0 84.0 2100.0 GL=6 ST=3 TYP=6 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.5 0845.6 10.0U 45.0 8400 BERN 41 F 0838.5 0845.6 10.0U 45.0 8400 BERN 41 F 0838.5 0949.3 0950.0 2.0 68.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | | | | 2010.0 | | | 1 | | |
| 2695 PENT 3 S 2315.0 2315.5 47.0 107.0 17.8 2695 LEAR 47 GB 2315.1 2315.5 1.9 110.0 QL=6 ST=2 TYP=5 8800 LEAR 47 GB 2315.3 2315.3 5.5 67.0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 0906.0 0921.0 120.0D 3600.0 8800 ATHN 49 GB 0906.0 0921.0 120.0D 3600.0 QL=6 ST=3 TYP=6 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 4 S/F 1544.2 1545.2 5.0 20.4 5.2 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=6 ST=2 TYP=5 QL=6 ST=2 TYP=5 | | | | | 2120.0 | | | -1.5 | | |
| 8800 LEAR 47 GB 2315.3 2315.3 .5 67.0 QL=6 ST=2 TYP=5 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 QL=6 ST=2 TYP=5 14 2695 ATHN 49 GB 0906.0 0921.0 120.00 3600.0 84.0 47 GB 0906.0 0921.0 120.00 3600.0 8800 ATHN 49 GB 0906.0 0921.0 84.0 4300.0 QL=6 ST=3 TYP=6 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=5 8800 BERN 41 F 0838.5 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 | | | 3 S | 2315.0 | 2315.5 | 47.0 | | 17.8 | | |
| 2695 PALE 47 GB 2315.3 2315.5 .7 98.0 QL=2 ST=2 TYP=5 14 2695 ATHN 49 GB 0906.0 0921.0 84.0 2100.0 QL=6 ST=3 TYP=6 8400 BERN 47 GB 0906.0 0921.0 120.0D 3600.0 8800 ATHN 49 GB 0906.0 0921.0 84.0 4300.0 QL=6 ST=3 TYP=6 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 4 S/F 1544.2 1545.2 5.0 20.4 5.2 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.0 3050.0 45.0 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | | | | | 1.9 | 110.0 | | | |
| 14 | | | | | | | | | | |
| 8400 BERN 47 GB 0906.0 0921.0 120.00 3600.0 QL=6 ST=3 TYP=6 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 4 S/F 1544.2 1545.2 5.0 20.4 5.2 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | 2695 PALE | 47 GB | 2315.3 | 2315.5 | • / | 98.0 | | | QL=2 51=2 11P=5 |
| 8400 BERN 47 GB 0906.0 0921.0 120.00 3600.0 QL=6 ST=3 TYP=6 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 4 S/F 1544.2 1545.2 5.0 20.4 5.2 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 QL=6 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | 14 | 2695 ATHN | 49 GB | 0906-0 | 0921.0 | 84.0 | 2100.0 | | | OL=6 ST=3 TYP=6 |
| 8800 ATHN 49 GB 0906.0 0921.0 84.0 4300.0 QL=6 ST=3 TYP=6 2800 OTTA 26A FAL 1315.0 1600.0 165.0 -12.6 -6.0 2800 OTTA 4 S/F 1544.2 1545.2 5.0 20.4 5.2 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.5 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | | | | | | | | | |
| 2800 OTTA | | | | | | | 4300.0 | | | QL=6 ST=3 TYP=6 |
| 2800 OTTA 20 GRF 1630.0 1700.0 80.0 1.8 1.2 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | | | | | | | | | |
| 2800 OTTA 260 FAL 1845.0 1940.0 55.0 -3.8 -2.5 15 2695 LEAR 47 GB 0501.5 0501.8 61.0 QL=6 ST=1 TYP=5 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | | | | | | | | | |
| 15 | | | | | | | | 1.2 | | |
| 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | 2800 011A | 200 FAL | 1847.0 | 1940.0 | 99. U | -5.8 | -2.5 | | |
| 8800 LEAR 8 S 0501.6 0501.8 45.0 QL=6 ST=1 TYP=3 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | 15 | 2695 LEAR | 47 GB | 0501.5 | 0501_8 | | 61.0 | | | QL=6 ST=1 TYP=5 |
| 8400 BERN 41 F 0838.3 0845.6 10.0U 45.0 8400 BERN 3 S 0949.3 0950.3 6.0 45.0 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | | | | | | | | | |
| 2695 ATHN 47 GB 0950.0 0950.0 2.0 68.0 QL=1 ST=2 TYP=5 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | | - | | | | 45.0 | | | |
| 8800 ATHN 47 GB 0950.0 0950.0 2.0 52.0 QL=6 ST=2 TYP=5 | | | - | | | | | | | |
| | | | | | | | | | | |
| | | | | | 200 C 200 W 120 | | | | | |

SOLAR RADIO EMISSION SELECTED FIXED FREQUENCY EVENTS

FEBRUARY 1986

| | | | | | Time of | | Flux | Density | | |
|-----|-----------|----|------|---------------|-----------------|-------------------|--------|------------------------------|-----|----------------|
| Day | Freq Sta | Ту | ре | Start (UT) | Maximum (UT) | Duration (Min) | Peak | Mean W/m ² Hz) | Int | Remarks |
| 15 | 8800 LEAR | 8 | S | 0950.1 | 0950.3 | .5 | 31.0 | | | QL=6 ST=2 TYP= |
| | 8400 BERN | 47 | GB. | 1112.0 | 1117.0 | 130.0U | 2000.0 | | | |
| | 2695 SGMR | 47 | GB | 1204.3E | 1204.6 | 63.0D | 290.0 | | | QL=6 ST=2 TYP= |
| | 8800 SGMR | 47 | GB. | 1215.3E | 1215.8 | 52.0D | 169.0 | | | QL=6 ST=2 TYP= |
| | 2800 OTTA | | | 1250.0 | | 23.0 | 18.4 | | | |
| | 2800 OTTA | 30 | PB I | 1313.0 | 1313.0 | 180.0 | 7.8 | 3.9 | | |
| | 2800 OTTA | 20 | GRF | 1345.0 | | 40.0 | 2.8 | | | |
| | 2800 OTTA | 20 | GRF | 1427.0 | 1505.0 | 65.0 | 3.0 | 1.5 | | |
| 16 | 2800 OTTA | 1 | S | 1438.0 | 1439.0 | 4.0 | 2.0 | 1.0 | | |
| | 2695 PENT | 3 | S | 2228.0 | 2247.0 | 60.0 | 135.0 | 41.0 | | |
| | 2695 PALE | 47 | GB | 2228. 1E | 2251.1 | 42.20 | 98.0 | | | QL=2 ST=2 TYP= |
| | 2695 LEAR | 20 | GRF | 2230.8 | 2245.8 | 20.5 | 139.0 | | | QL=6 ST=2 TYP= |
| | 2695 LEAR | 20 | GRF | 2230.8 | 2245.8 | 38.5 | 139.0 | | | QL=6 ST=2 TYP= |
| 21 | 2800 OTTA | 21 | GRF | 1715.0 | 1805.0 | 130.0 | 2.0 | 1.0 | | |
| 28 | 2800 OTTA | 8 | S | 1502,5 | 1502.7 | .6 | 1.2 | 0.6 | | |

Reports are received routinely from the following observatories:

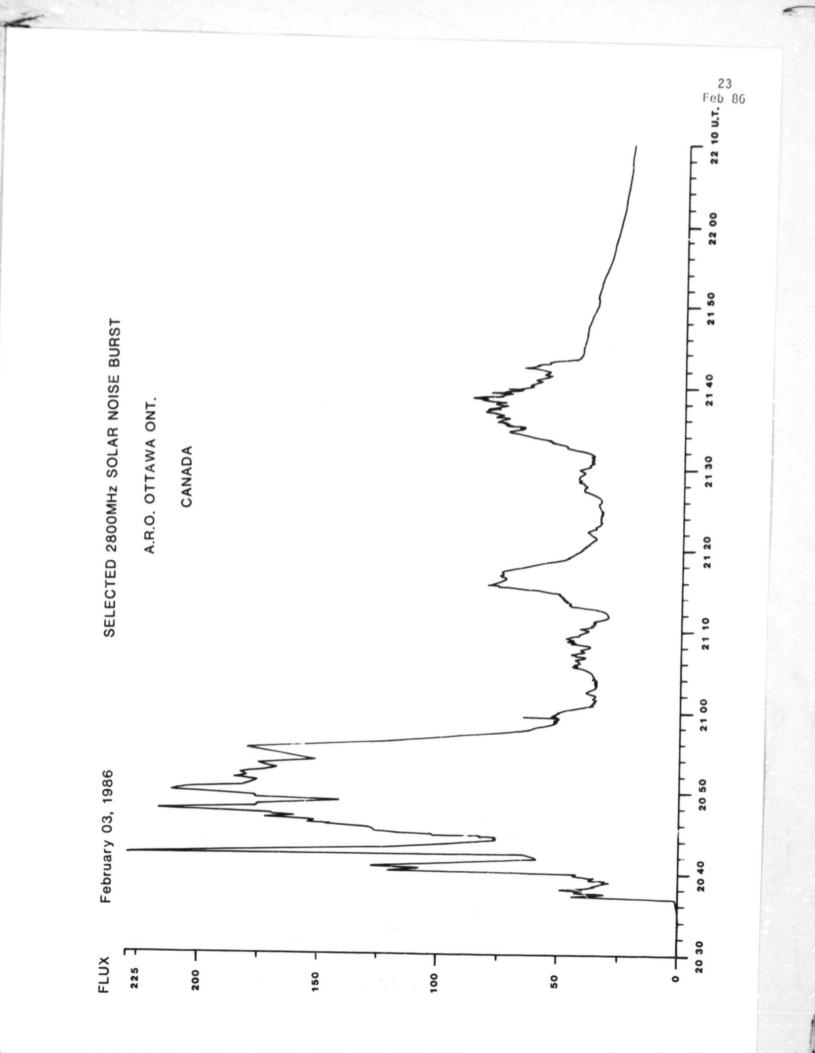
| ATHN = | Athens | HUAN = | Huancayo | NAGO | = | Nagoya | POTS | = Potsdam |
|--------|-----------|--------|------------|------|---|-----------|------|-----------------|
| BERN = | Berne | IRKU = | Irkutsk | NOBE | = | No beyama | SAOP | = Sao Paulo |
| BORD = | Bordeaux | IZMI = | IZMIRAN | ONDR | = | Ondrejov | SGMR | = Sagamore Hill |
| CRIM = | Crimea | KISV = | Kislovodsk | OTTA | = | Ottawa | TORN | = Torun |
| DWIN = | Dwingeloo | KRAK = | Krakow | PALE | = | Palehua | TYKW | = Toyokawa |
| GORK = | Gorky | LEAR = | Learmonth | PEKG | = | Peking | TRST | = Trieste |
| HIRA = | Hiraiso | MANI = | Manila | PENT | = | Penticton | UPIC | = Upice |

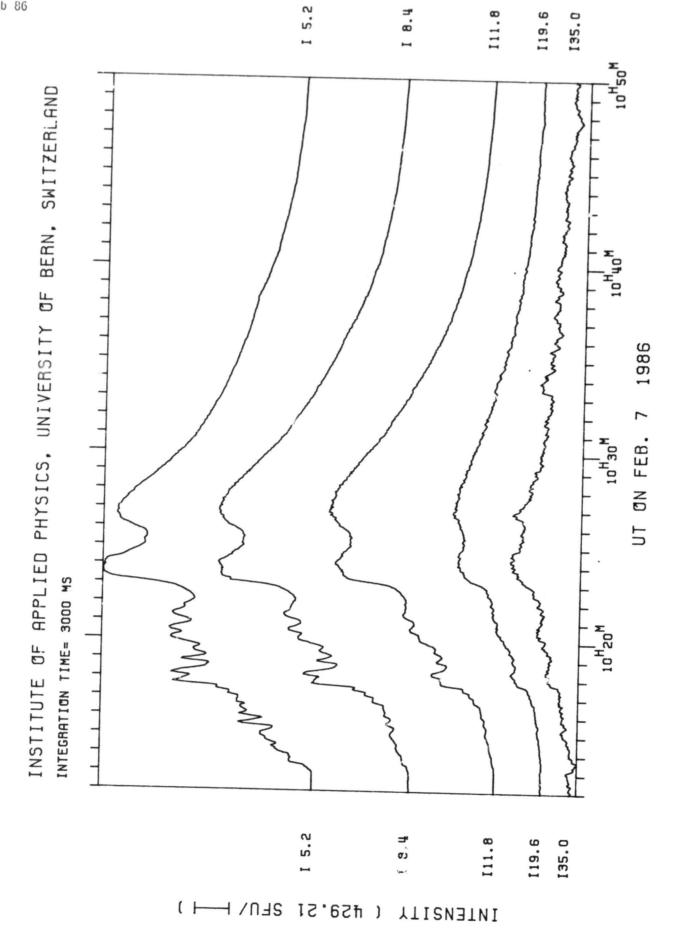
Explanation of Type Code:

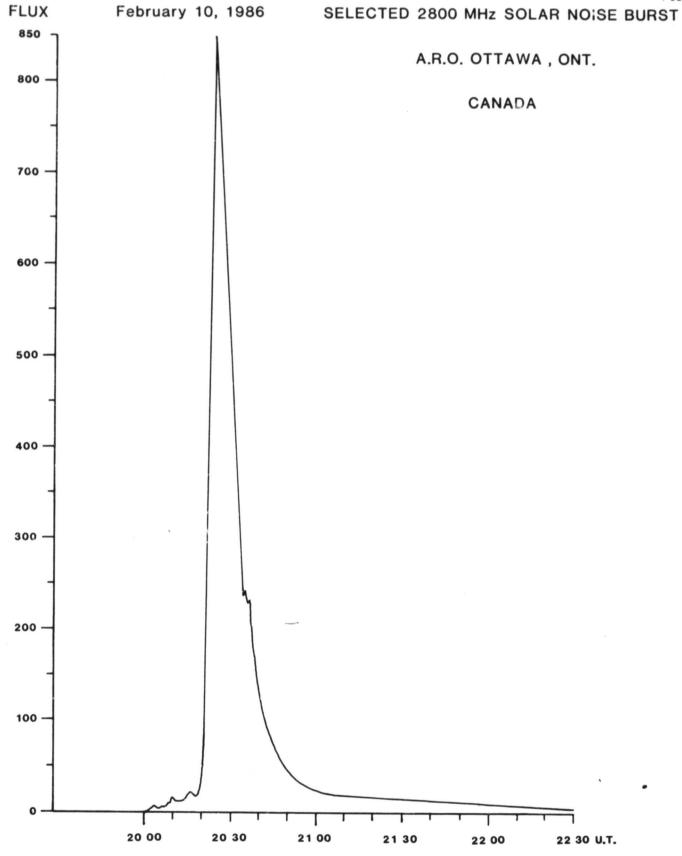
| 2 3 4 5 | Simple Simple Simple Simple Simple Minor | 1F 2 2F | 8 20 21 22 | Simple | 3 3 3 4 3 5 5 | 24 Rise 25 Rise 26 Fall 27 Rise 28 Prec 29 Post | and Foursor | | 31 33 40 41 | Post Burst Increase A Post Burst Decrease Absorption Fluctuation Group of Bursts Series of Bursts | 44 45 46 47 | Onset of Noise Noise Storm in Complex Complex F Great Burst Major | |
|------------------|---|---------------|---------------------|-------------|---------------------|--|-------------|--|----------------------|--|----------------------|--|--|
| 2 | 1A Simpl 3A Simpl 1A Simpl 2A Simpl | e 2A e 3A | GRF | 240 240F | Rise Rise | le 2AF only only F Rise | 16A 260 | Post Rise Fall A Fall Only Fall F | | 27F Rise and Fall I 27AF Rise and Fall I 31A Post Burst Dec 32A Absorption A | AF | ө А | |

Remarks:

QL = Quality (1=poor to 6=excellent)
ST = Status (1=real time; 2=final; 3=correction; 4=deletion)
TYP= Type (1=noise storm; 2=rise in base level; 3=minor; 4=group; 5=major; 6=major plus; 7=Castelli U-type burst)







VOSTOK INFERRED INTERPLANETARY MAGNETIC FIELD PRELIMINARY DATA

March 1985 - February 1986

| Day | Mar | Apr | May | Jun | Jul | Aug | Sep | 0ct | Nov | Dec | Jan | Feb 86 |
|----------------------------|------------------------|--------------------------|---------------------------|--------------------------|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| 1 2 3 4 5 | А А Т А | A A A A | AT A AT TA TA | T T A A | T T A T T | T AT T T | TA T T T T | TA T A A | A AT A AT A | A A A A | AT AT AT T A | - T TA TA T |
| 6 7 8 9 | A AT T T | A A T T | TA T T A T | T TA T TA T | T TA T T | T T AT T A | A AT A A | A A T AT | A A A T T | A T T T | A T T T | T T T AT T |
| 11 12 13 14 15 | T T T T A | A AT AT T A | A T T T | TA T TA AT T | A A A A | A TA A | AT AT A A T | AT T T T AT | TA TA TA T | T TA T AT | A TA AT A | T T T T |
| 16 17 18 19 20 | T T A T TA | A A T T | T TA T A | A A A A | A A A A | A T T T | TA T T A A | AT T T T | TA TA T T | A AT A A T | A AT T T A | T T A TA A |
| 21 22 23 24 25 | T T T T | T T A AT A | A A A A | A AT AT A T | A TA T T | T TA T T | T TA T AT | T T T T | T AT T TA | AT T T T A | T A AT A | A A A |
| 26 27 28 29 30 | T T A | A TA TA AT A | A A A A | T T T T | TA T T T | T T T T | AT T T T | T T - - | AT A - - | T A A | A | A AT A |
| 31 | - | | T | | Т | T | | - | | - | - | |

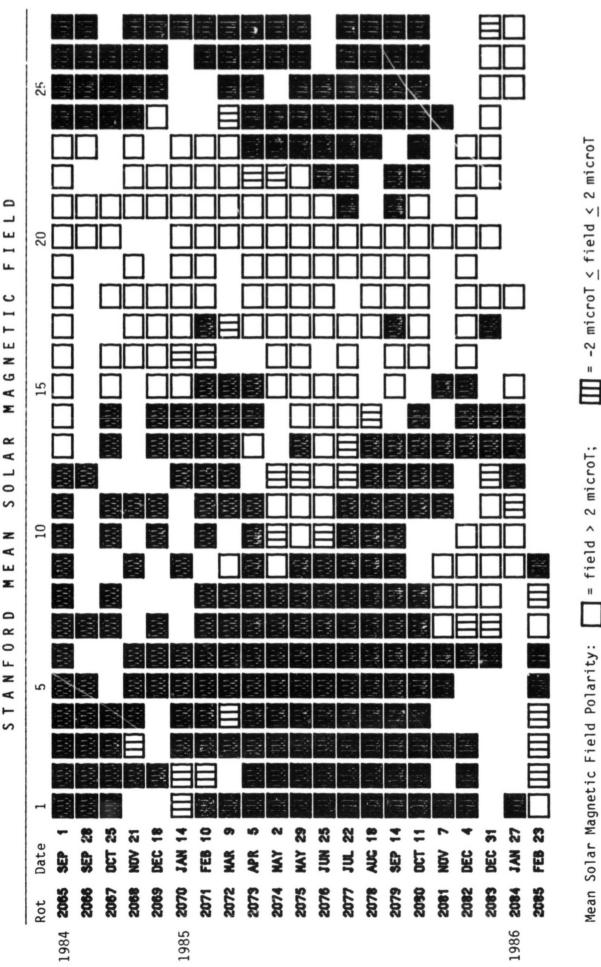
FIELD MAGNETIC INTERPLANETARY INFERRED VOSTOK

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Inferred Interplanetary Magnetic Field Polarity:

= definitely away from the Sun The chart shows the daily inferences of the polarity of the interplanetary magnetic field based principally on the magnetograms produced by the magnetometer at the Vostok Antarctic Station of the USSR. 🚻 = definitely towards the Sun No box = no data available

0 _ ш I 4 ပ I ш z 9 ¥ Σ α ¥ _ 0 S Z V ш Σ 0 × 0 4 Z Ø \vdash



Rotation numbers given are the Bartels series, but the dates are not; these of occurrence of phenomena on the Sun that affect the Earth during the given Bartels Rotation. Observations are taken at 2000 UT. dates mark times

No box = no data available

= field <-2 microT;

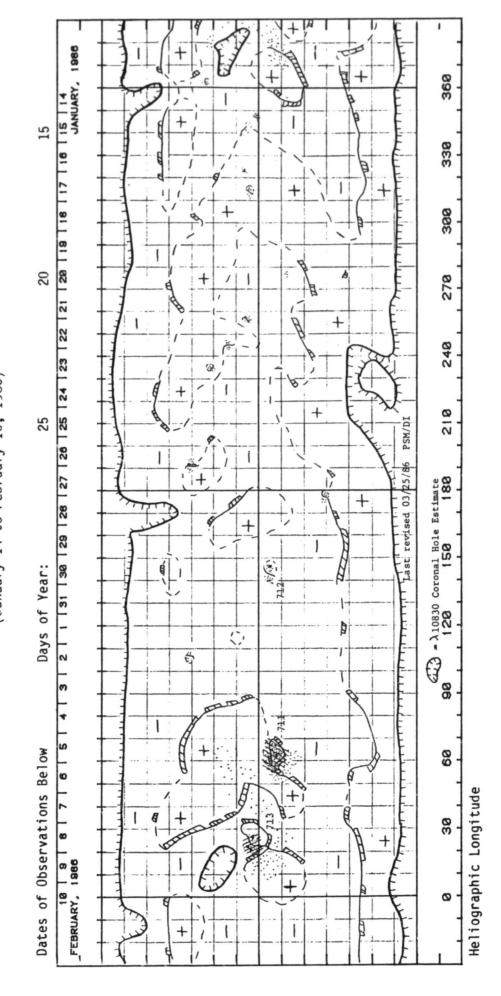
| Day | Mar 8 | 5 Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan 8 | 6 Feb |
|----------------------------|------------------------------|---------------------------------|----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|------------------------------|----------------------------|-----------------------|
| 1 2 3 | 31 27 16 | 2 -10 -14 | -5 -8 -9 | -10 -7 -11 | -16 -14 -5 | -5 1 2 | · · 7 | 13 15 6 | -7 -10 -8 | | : | : |
| 4 5 | 13 | -13 -17 | -5 -5 | -12 -11 | 2 | 8 | 3 5 | -6 -13 | -15 -16 | -16 -20 | -3 | 15 15 |
| 6 7 8 9 10 | -8 -17 -13 | -20 -7 -13 -6 -13 | -5 -8 -8 -5 | -3 4 6 -1 -4 | 17 31 24 22 | 6 10 8 8 | 3 -26 -24 | -20 -23 -26 -27 | -25 -26 -17 | -25 : -14 1 | 1 14 3 11 12 | -8 -27 -14 4 |
| 11 12 13 14 15 | -4 -1 -3 -15 -12 | -29 -19 -21 -13 -12 | 2 8 1 | 3 12 22 21 19 | 12 7 5 8 6 | -9 -16 -24 -28 -22 | -24 -22 -25 -24 -21 | -21 -23 -16 -26 -20 | -6 -5 5 11 6 | 13 8 3 | 0 -19 -14 | ; 9 : |
| 16 17 18 19 20 | -6 10 -7 -6 | 3 -7 -10 | 11 22 33 48 39 | 17 13 15 7 -10 | -10 -27 -27 -24 | -23 -22 -20 -20 -17 | -21 -25 -29 -28 -22 | -27 -21 -25 | -3 -2 -11 | -18 -20 -21 3 11 | -12 21 | 9 |
| 21 22 23 24 25 | -12 -12 -5 1 | 5 6 18 23 18 | 27 25 0 -9 -21 | -21 -16 -13 -13 -16 | -19 -19 -10 -14 | -19 -22 -18 -22 -28 | -21 -23 -16 -10 -6 | -17 -17 -12 -8 | -5 : | 15 22 28 15 21 | 16 11 12 15 10 | 18 10 9 1 |
| 26 27 28 29 30 | 37 24 16 | 1 -12 -27 -32 -47 | -18 -8 -8 | -12 -12 -9 -13 -9 | -19 -27 -26 -27 -25 | -25 -15 -9 -4 -2 | -5 11 12 -6 | 4 19 17 14 | 15 : : | 8 | -3 | 0 -4 -4 |
| 31 | 12 | | -5 | | -22 | 1 | | 5 | | | | |

Dot symbol indicates no data available for the day.

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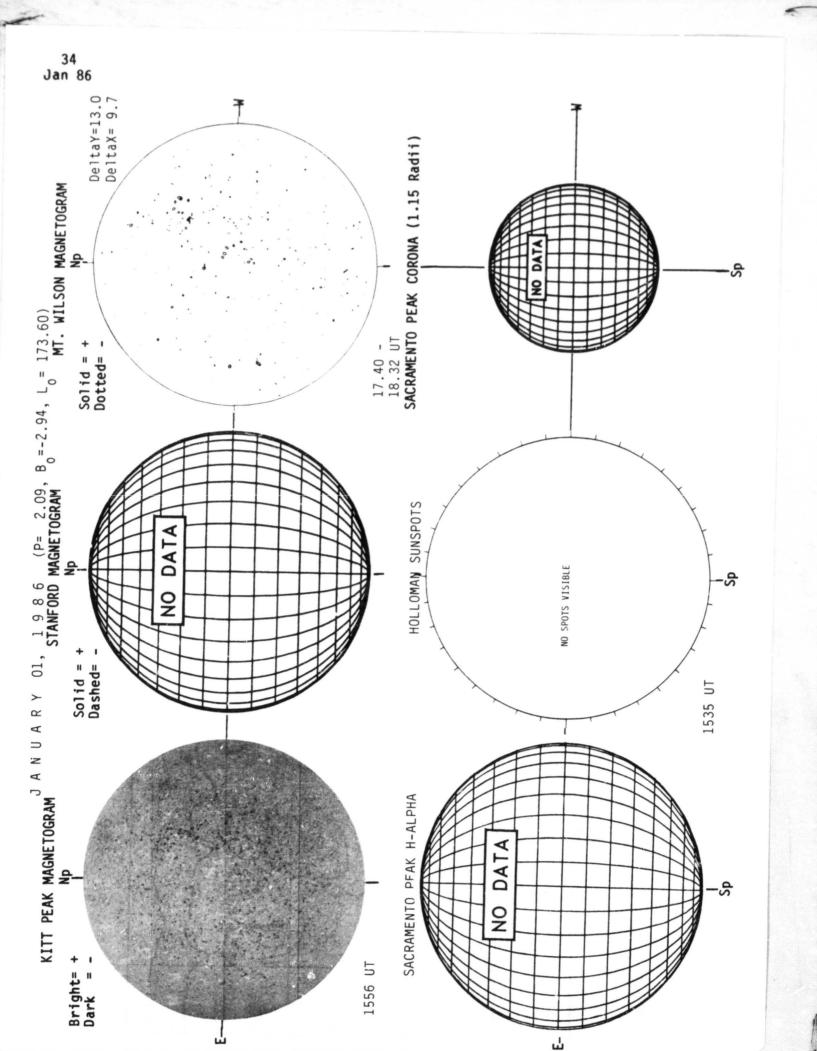
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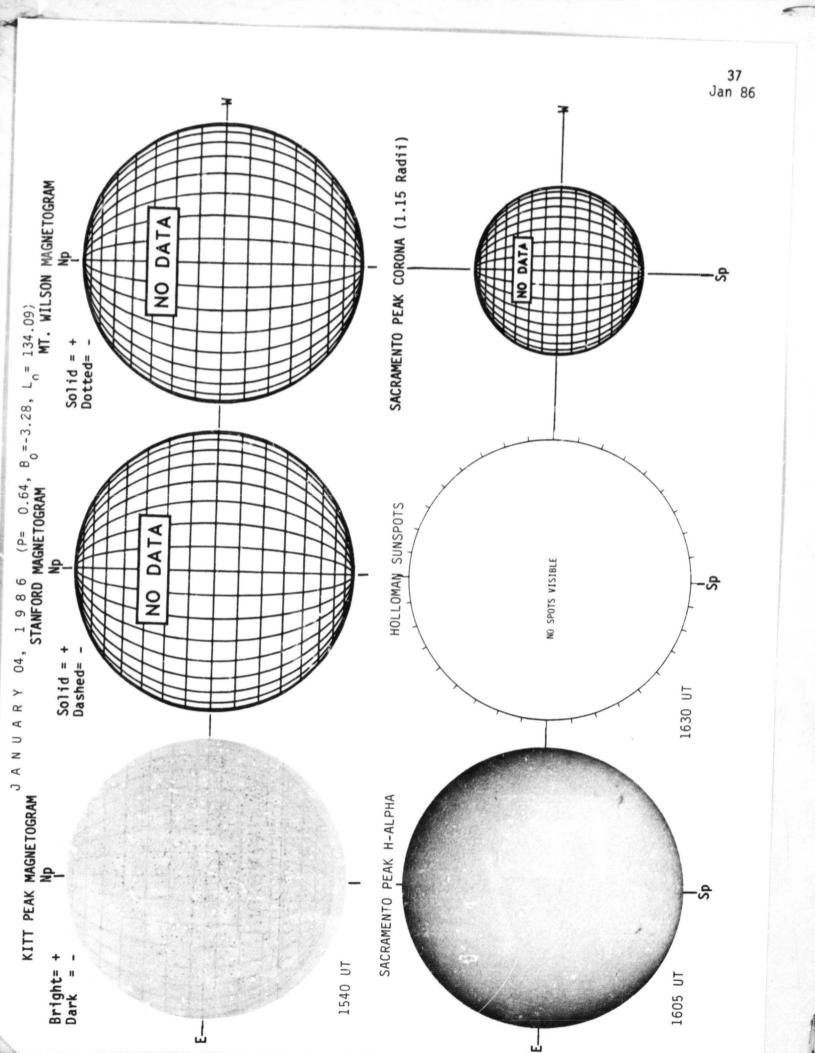


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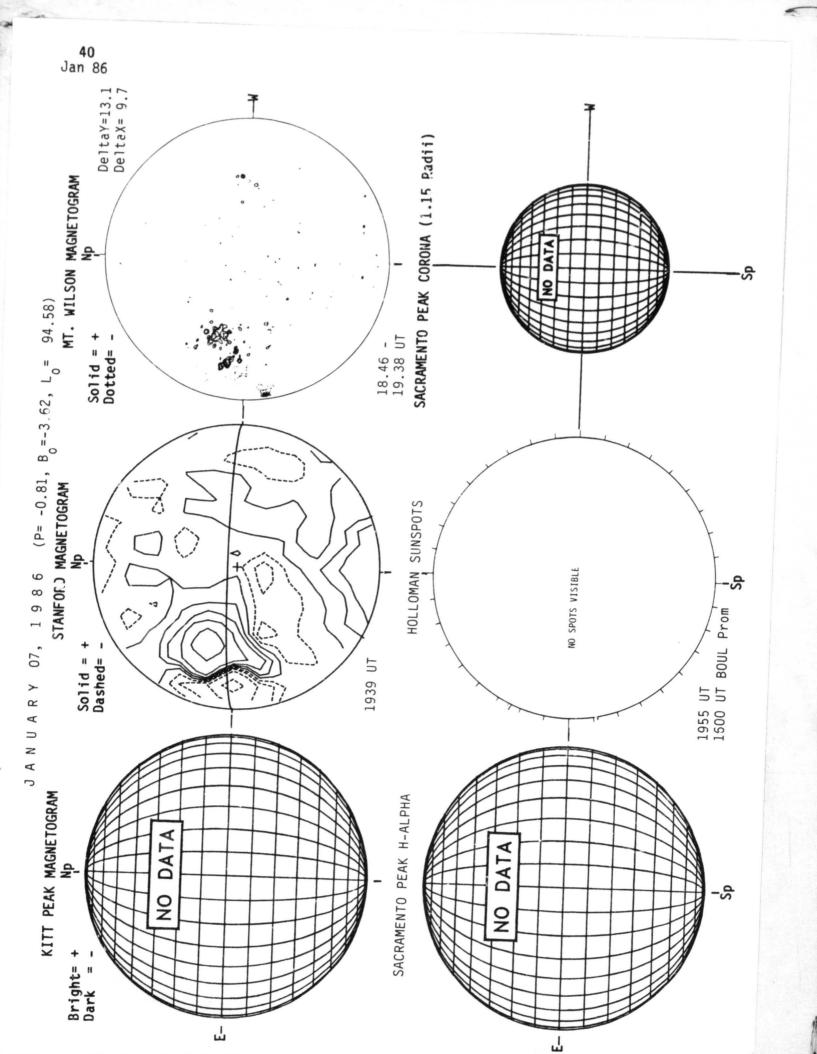
Stanford Solar Observatory

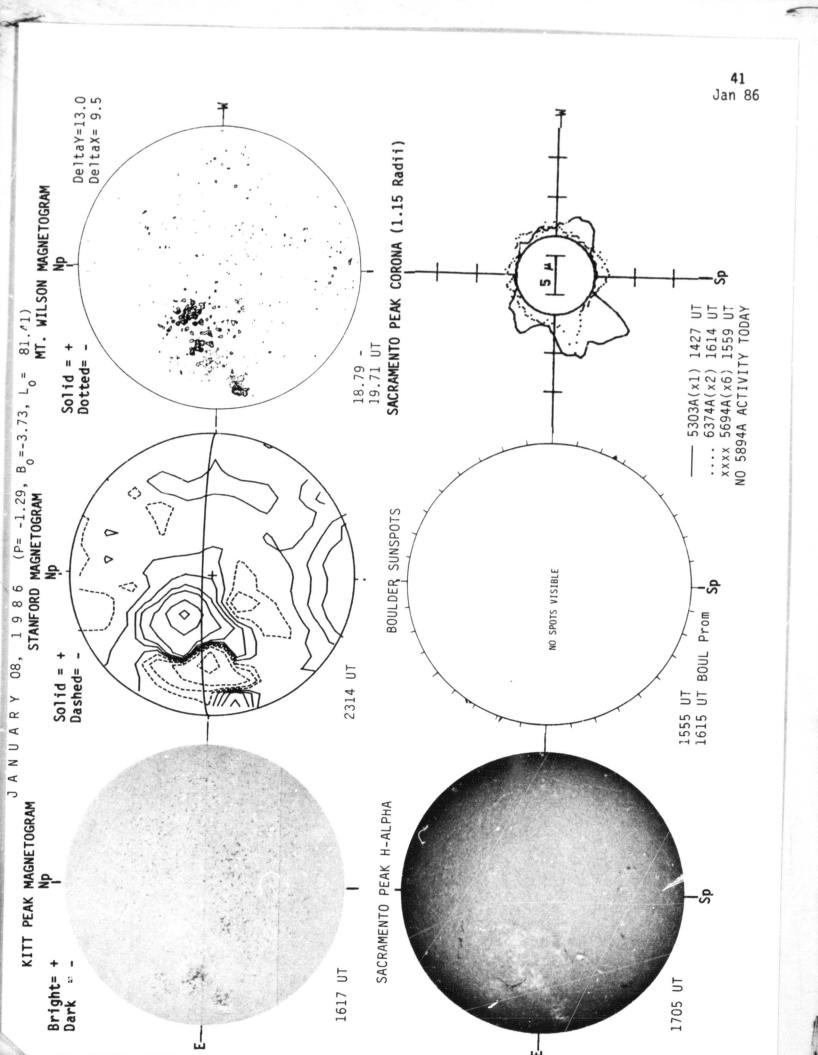
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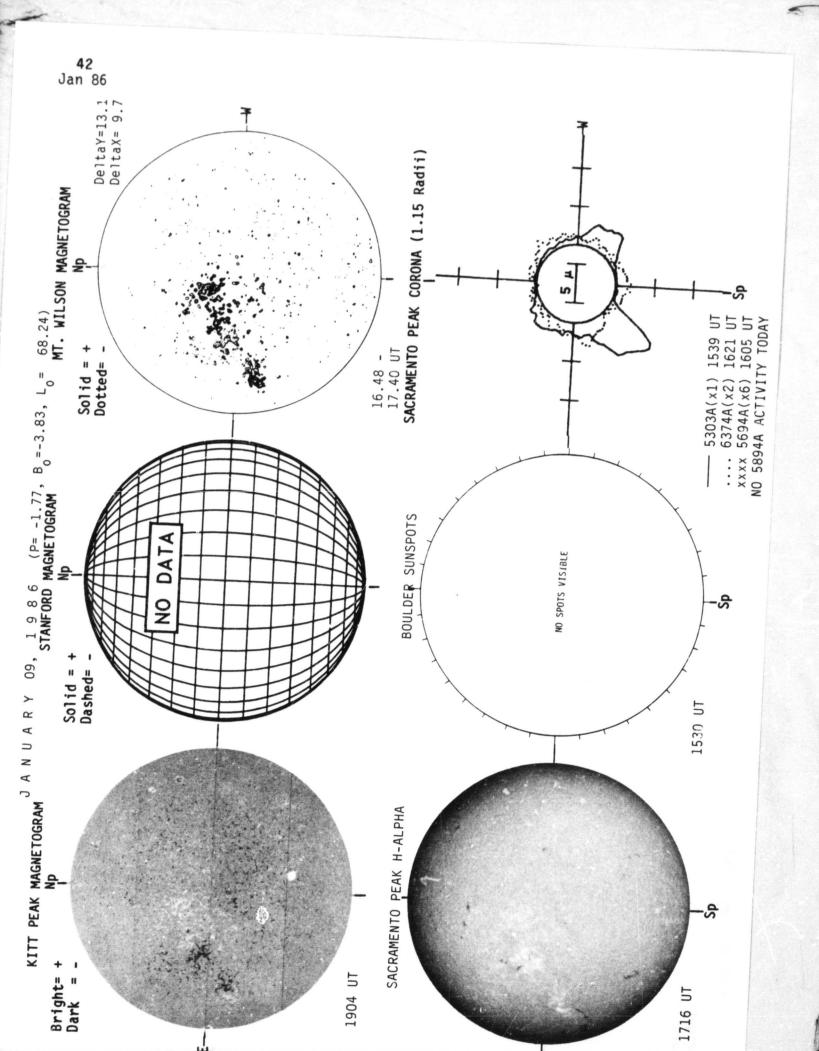


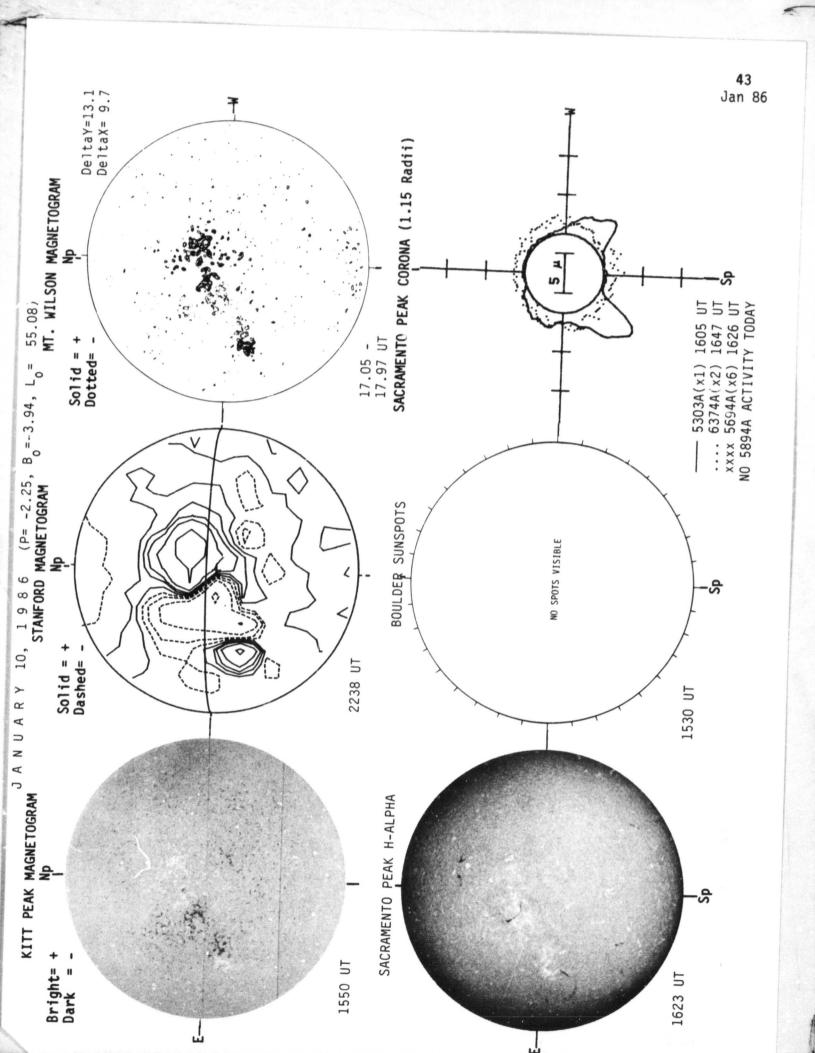


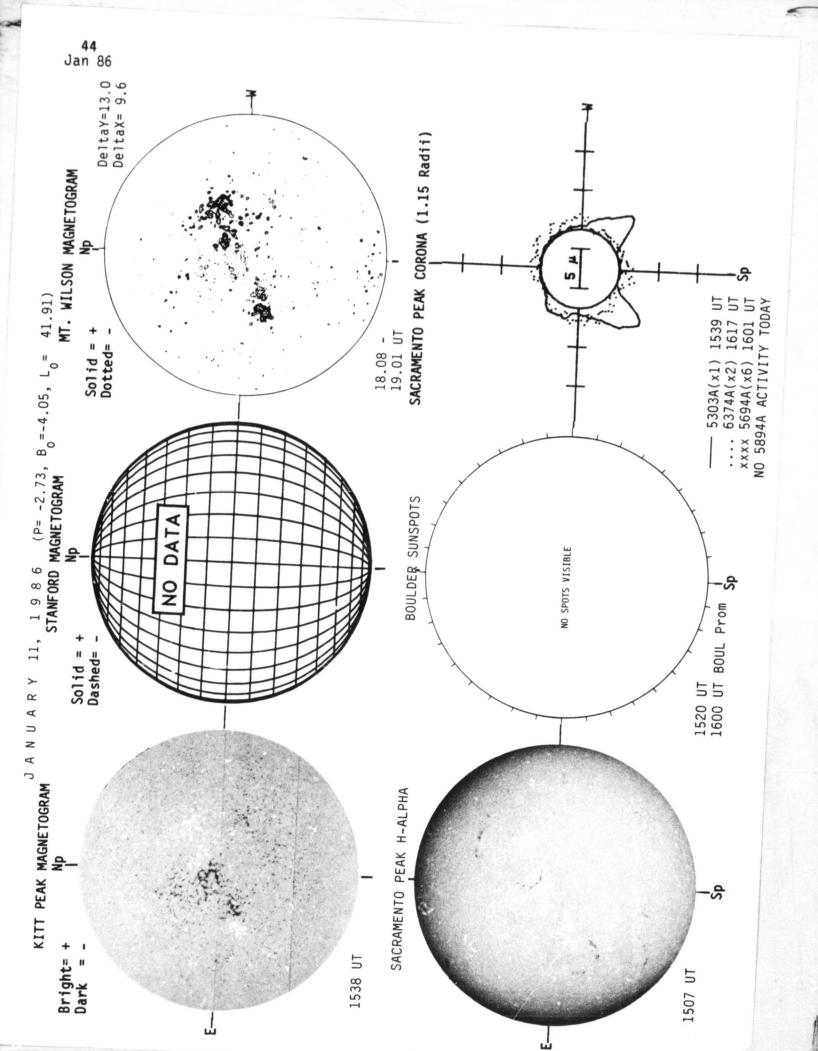
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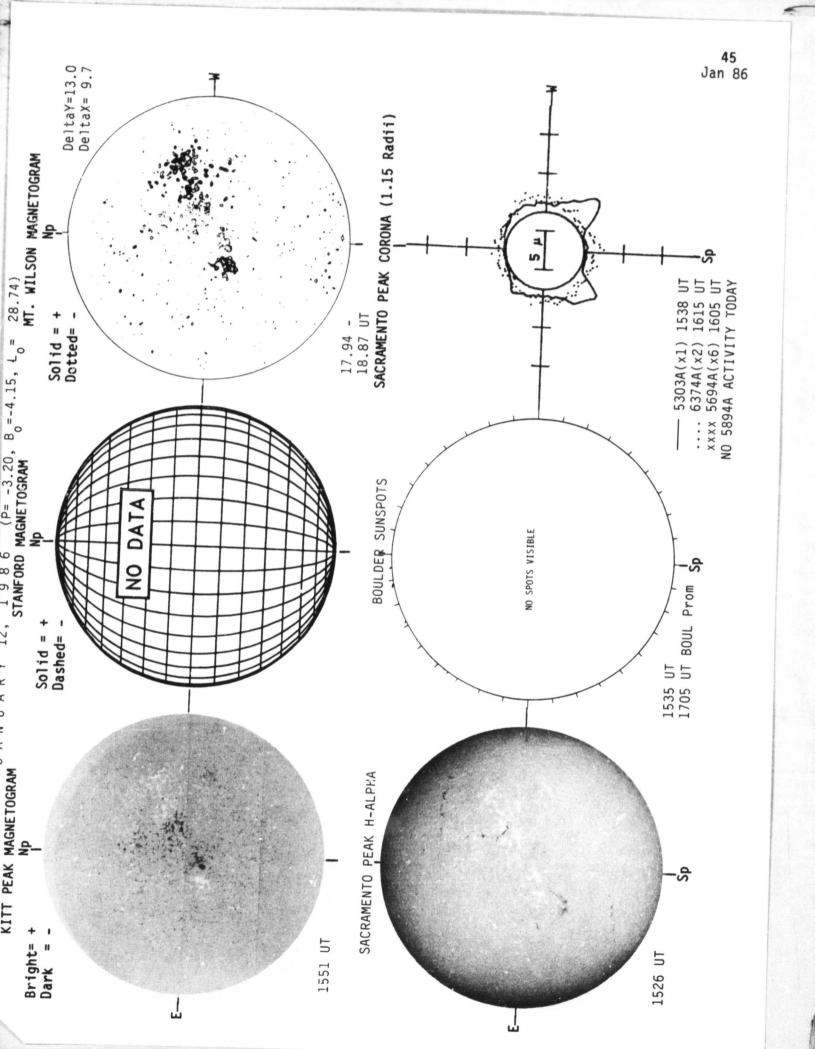


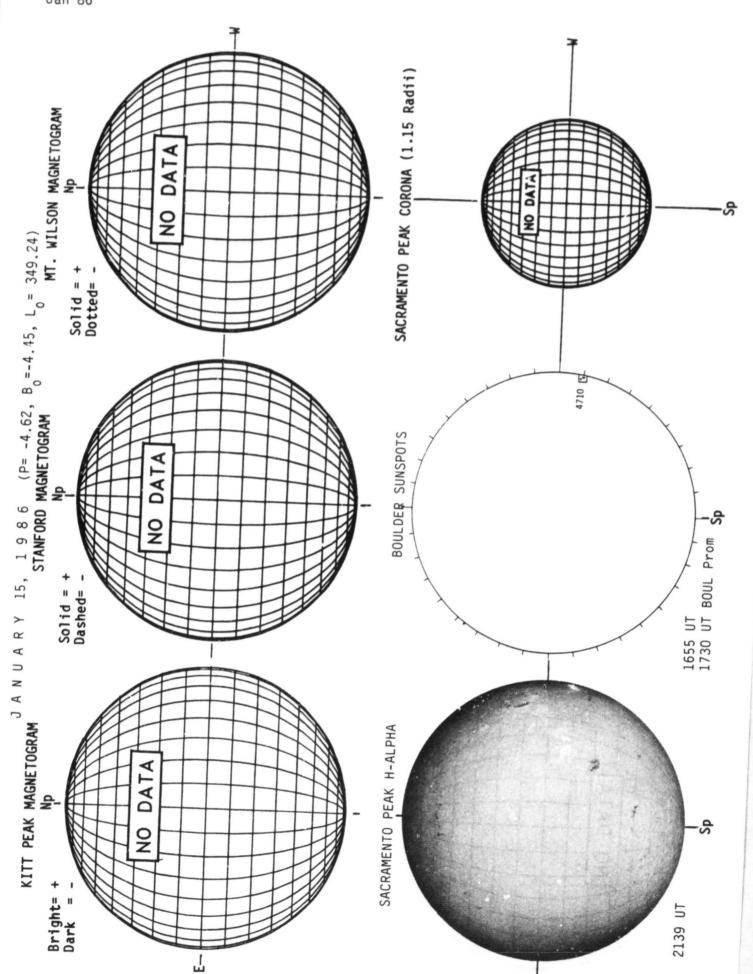


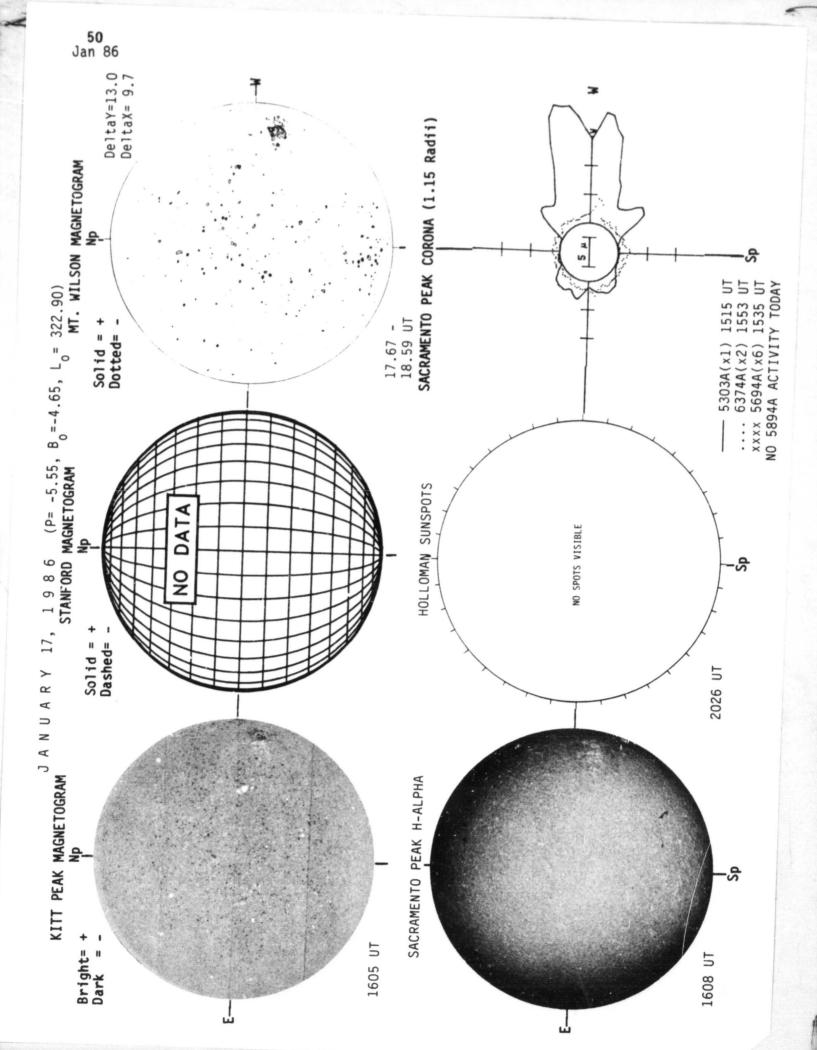


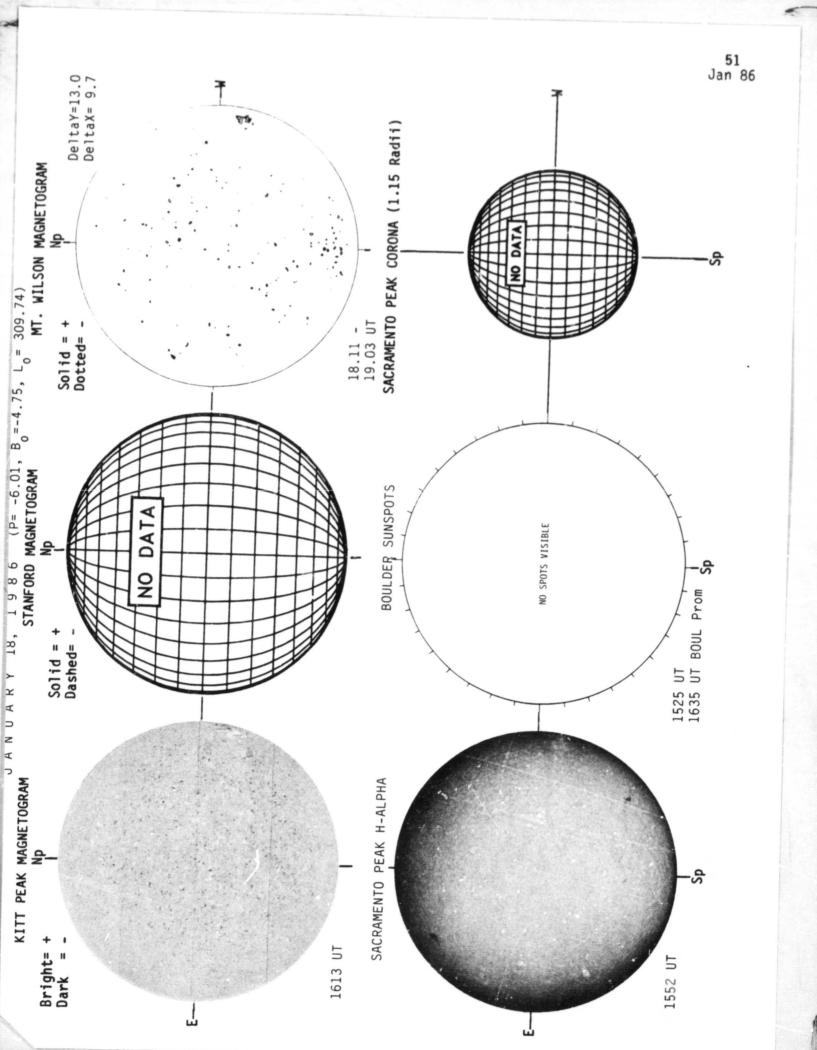


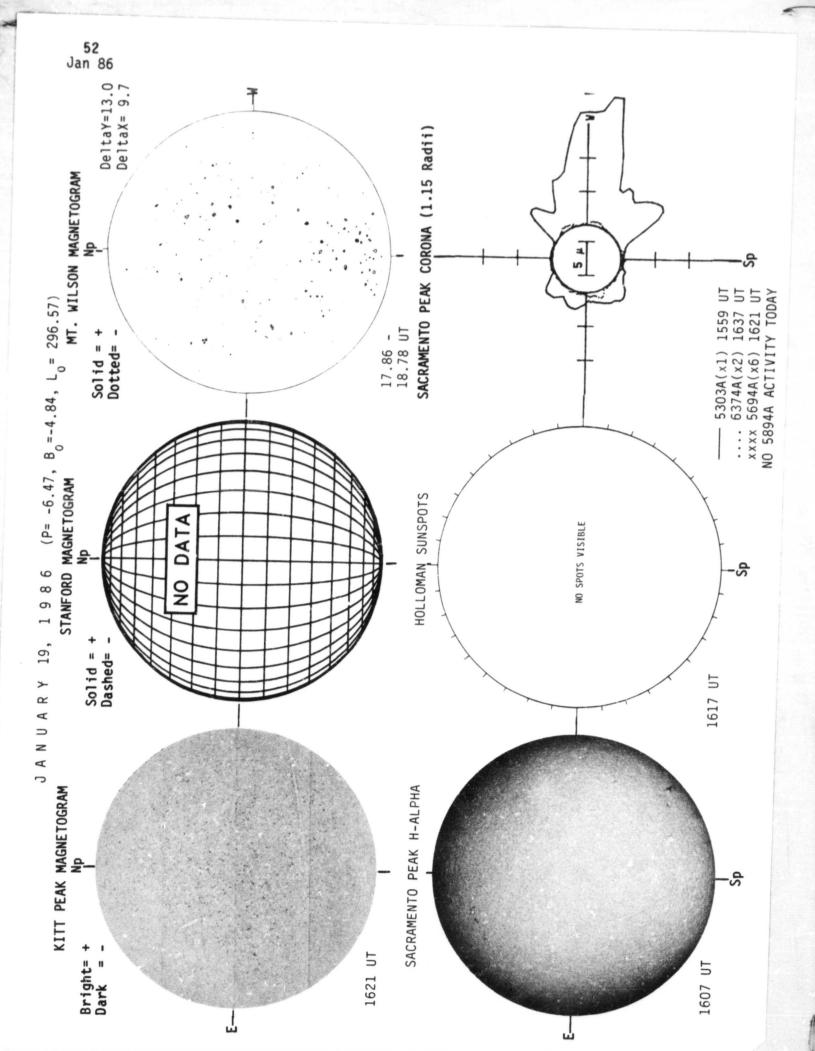


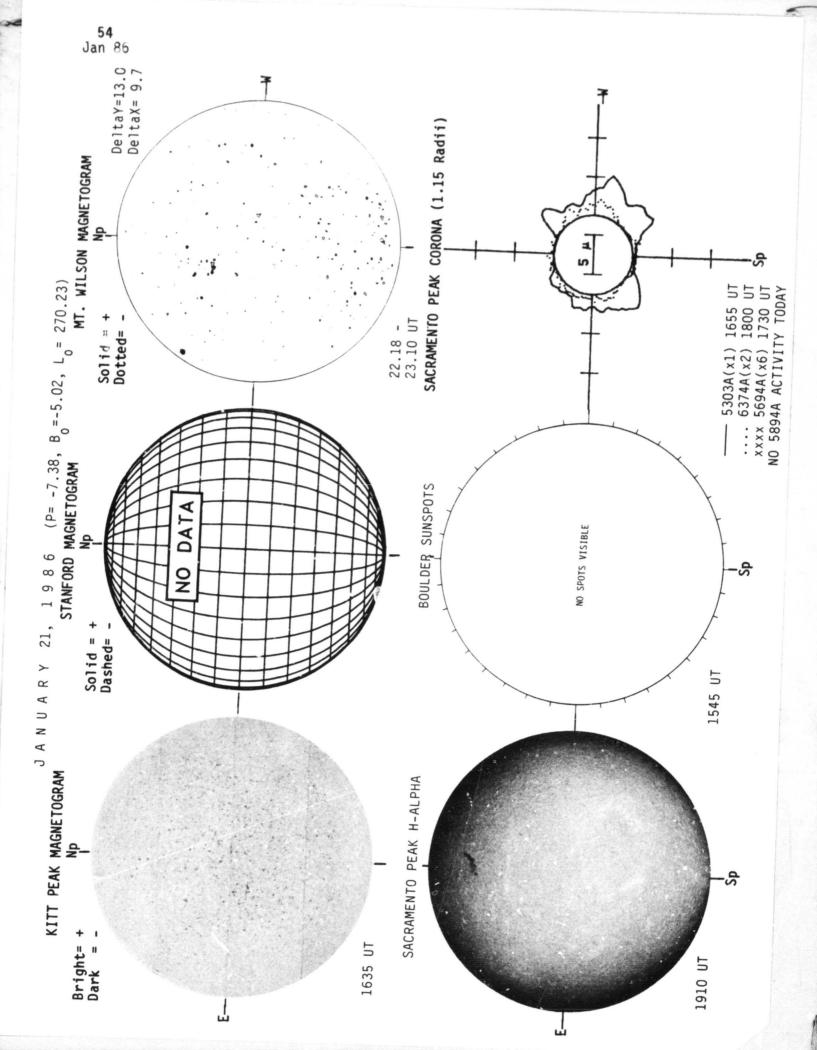


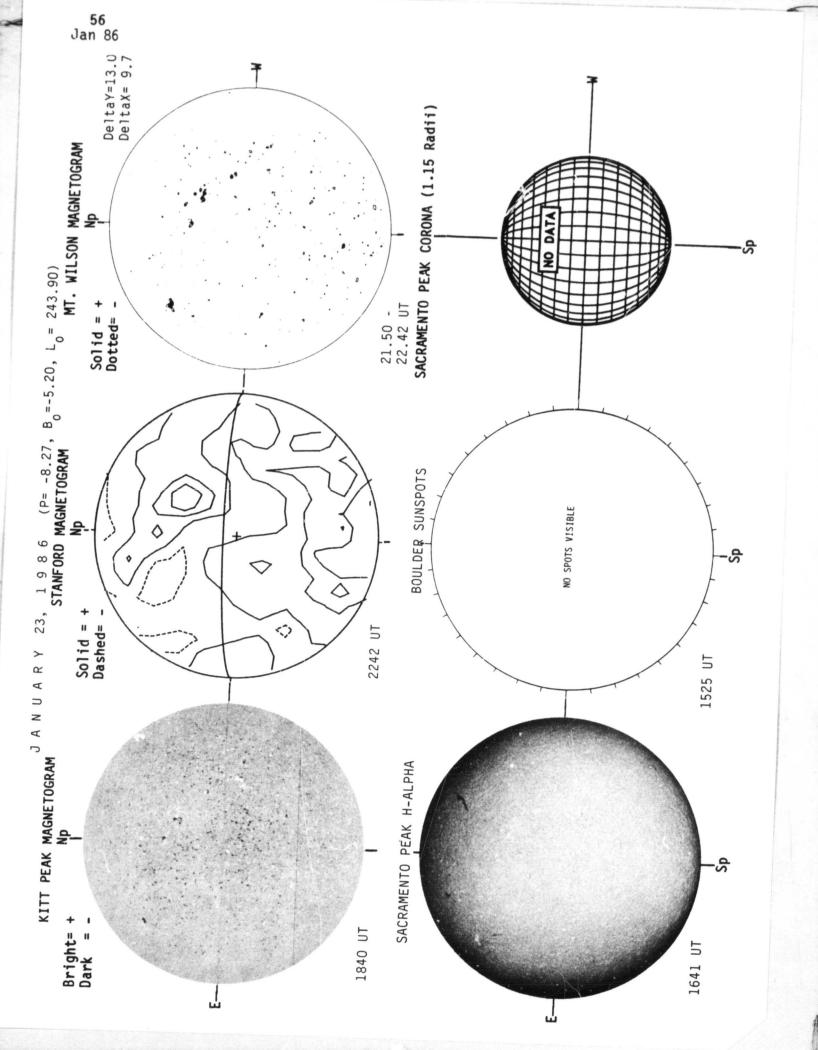


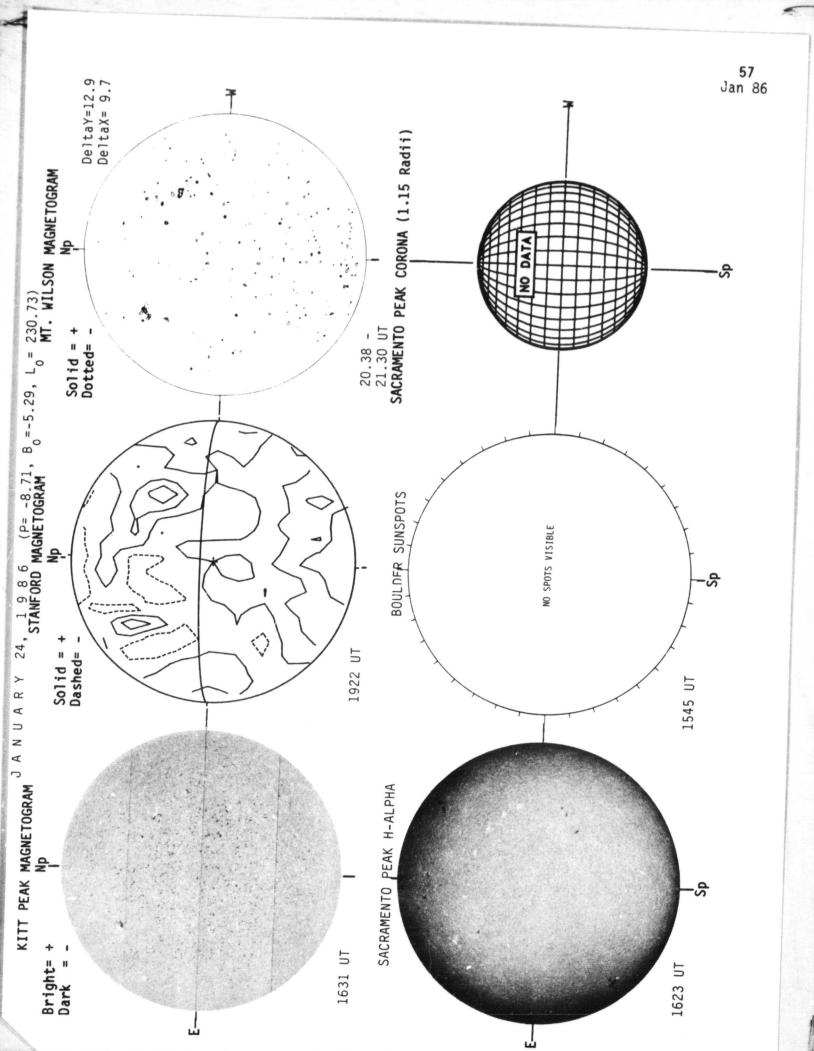


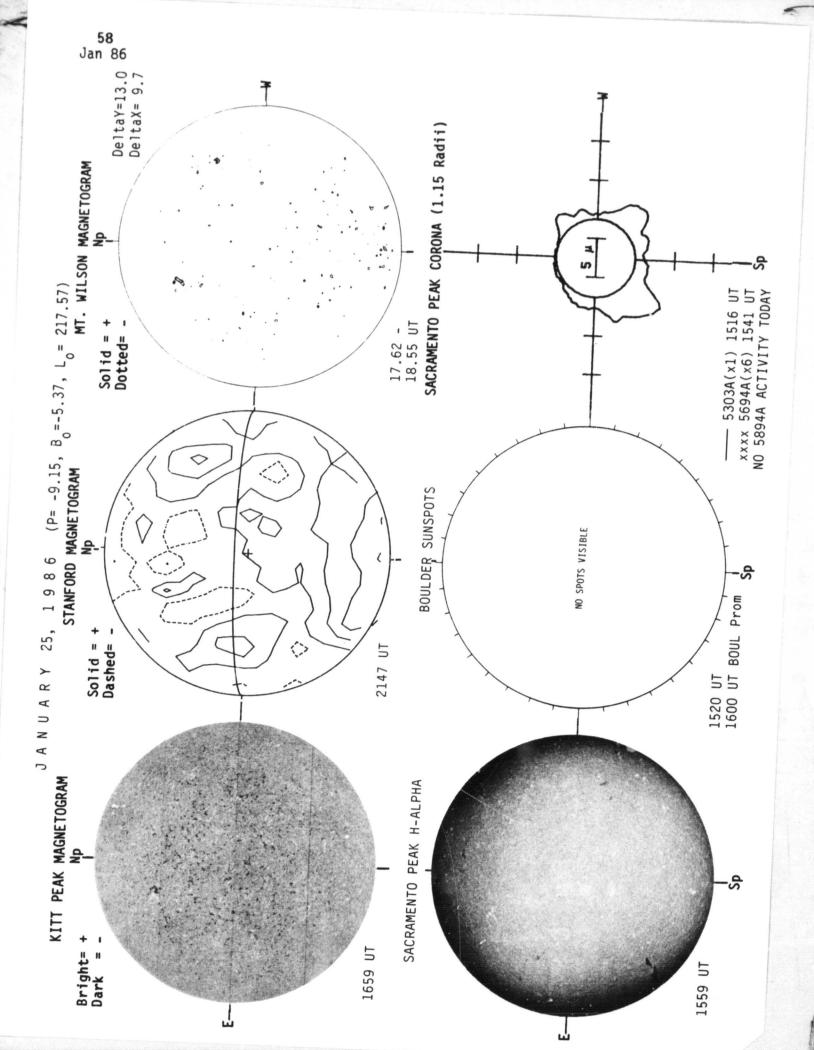


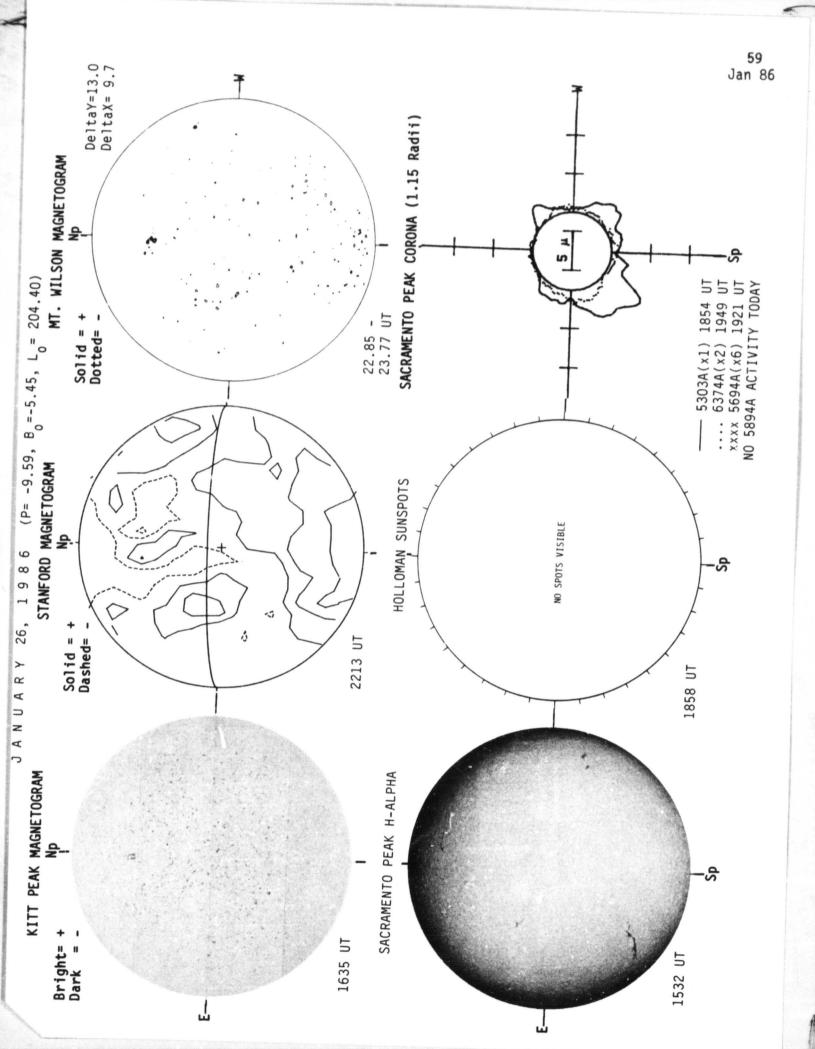


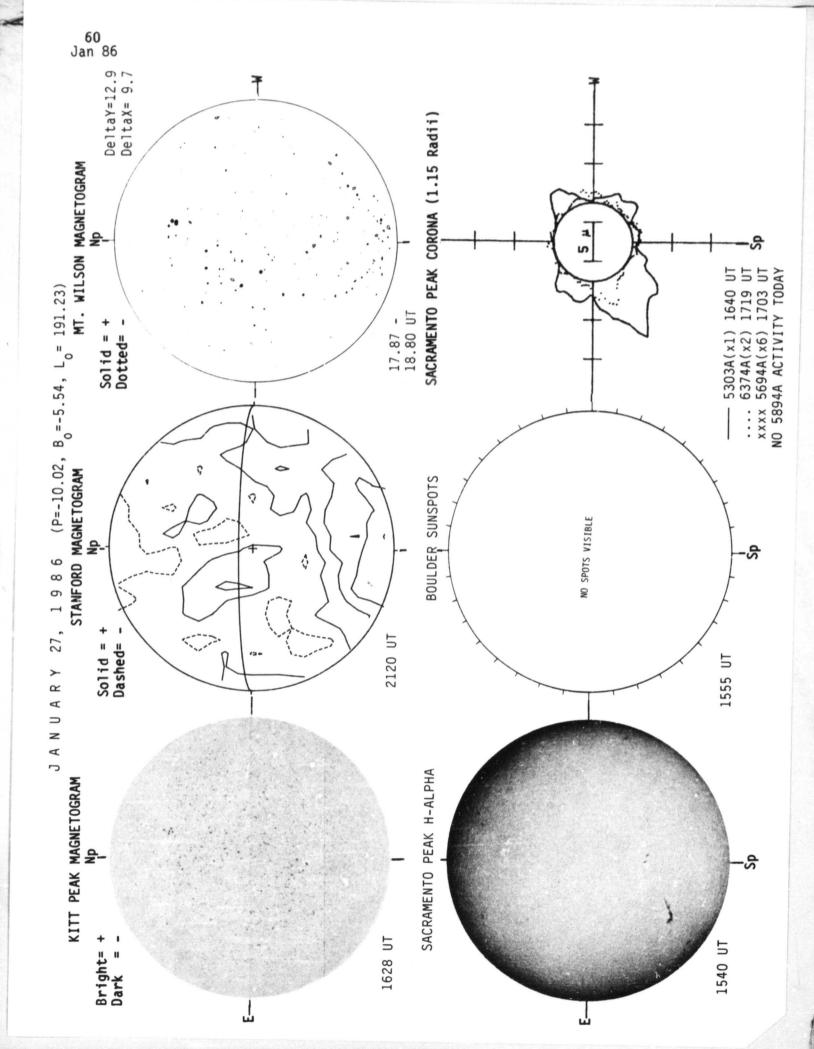


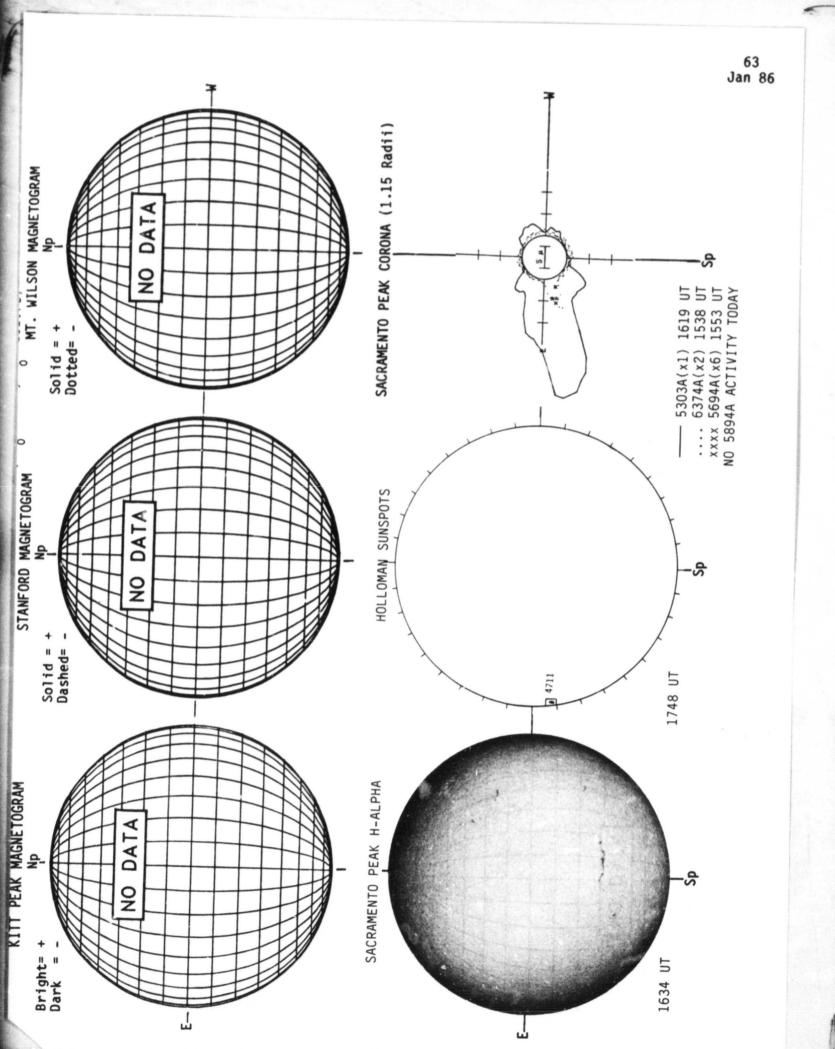












S U N S P O T G R O U P S (ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

JANUARY 1986

| NOAA/ USAF | Mt Wilson | | Observ | ation Time | | CMP | Max | Mag | Spot | Corrected Area | Spot | Long. Extent | |
|---------------|---------------|------|----------------|---------------|--------------------|--------------------|-----|------|--------------|-------------------|---------|-----------------|---------------|
| Group | Group | Sta | Mo Day | (UT) | Lat CMD | Mo Day | Н | | Class | (10-6 Hemi) | Count | (Deg) | Qual |
| 4710 | | LEAR | 01 13 | 0225 | S12 W42 | 01 9.9 | | Α | AXX | 10 | 1 | 1 | 3 |
| 4710 | | ATHN | 01 13 | 0740 | S12 W38 | 01 10.4 | | В | CRO | 40 | 4 | 3 | 2 |
| 4710 | | ATHN | 01 13 | 0740 | S12 W42 | 01 10.2 | | В | CRO | 40 | 4 | 3 | 2 2 3 |
| 4710 | | RAMY | 01 13 | 1335 | S12 W47 | 01 10.0 | | В | DAO | 120 | 12 | 4 | |
| 4710 | 04007 | BOUL | 01 13 | 1525 | S11 W47 | 01 10.1 | | В | DSO | 60 | 3 | 4 | 1 |
| 4710 | 24287 | MWIL | 01 13 | 1600 | S11 W48 | 01 10.1 | 4 | (B) | 000 | 100 | | - | |
| 4710 | | HOLL | 01 13 | 1707 | S11 W48 | 01 10.1 | | В | DSO | 120 | 12 | 5 | 4 |
| 4710 | | PALE | 01 13 | 1834 | S12 W48 | 01 10.2 | | В | DSO | 120 | 8 | 4 | 2 2 3 3 2 2 4 |
| 4710 | | LEAR | 01 14 01 14 | 0049 1150 | S12 W52 S13 W60 | 01 10.1 | | В | DSO | 80 90 | 12 7 | 5 | 2 |
| 4710 4710 | | RAMY | 01 14 | 1301 | S12 W60 | 01 10.0 | | В | BXO DAO | 150 | 19 | 5 | 3 |
| 4710 | | BOUL | 01 14 | 1535 | S11 W62 | 01 10.0 | | В | CSI | 110 | 9 | 9 | 2 |
| 4710 | | HOLL | 01 14 | 183C | S13 W64 | 01 9.9 | | В | DAO | 110 | 15 | 8 | 2 |
| 4710 | | PALE | 01 14 | 1924 | S13 W65 | 01 9.9 | | В | CSI | 110 | 11 | 7 | 4 |
| 4710 | | MANI | 01 15 | 0015 | S12 W65 | 01 10.1 | | U | DAO | 120 | 15 | 6 | |
| 4710 | | LEAR | 01 15 | 0118 | S12 W66 | 01 10.1 | | В | CSO | 100 | 12 | 6 | 2 |
| 4710 | | ATHN | 01 15 | 0830 | S12 W73 | 01 9.9 | | | CSO | 80 | 7 | 8 | 1 |
| 4710 | | RAMY | 01 15 | 1615 | S11 W78 | 01 9.8 | | В | DRO | 10 | 4 | 7 | 3 |
| 4710 | | BOUL | 01 15 | 1655 | S11 W81 | 01 9.6 | | В | BXO | 90 | 2 | 6 | 1 |
| 4710 | | HOLL | 01 15 | 1725 | S10 W/6 | 01 10.0 | | В | DAO | 70 | 6 | 9 | 3 |
| 4710 | | PALE | 01 15 | 2030 | S12 W81 | 01 9.8 | | В | CSO | 80 | 6 | 5 | 2 |
| 4710 | | LEAR | 01 16 | 0027 | S12 W77 | 01 10.2 | | В | CSO | 60 | 7 | 14 | 3 |
| 4710A | | LEAR | 01 26 | 0001 | S09 W02 | 01 25.9 | | Α | AXO | 10 | 2 | 1 | 3 |
| 4710B | 24288 | MWIL | 01 21 | 1730 | N29 E69 | 01 27.1 | 3 | AP | | | | | |
| 4710B | | LEAR | 01 22 | 0004 | N29 E67 | 01 27.3 | | Α | AXX | 10 | 1 | 1 | 3 |
| 4710B | 04000 | ATHN | 01 22 | 1100 | N32 E62 | 01 27.4 | | A | AXX | 10 | 1 | | 3 |
| 4710B | 24288 | MWIL | 01 22 | 1600 | N29 E58 | 01 27.2 | 2 | (AP) | A V V | | | | 2 |
| 4710B | 24200 | RAMY | 01 23 01 23 | 1454 1545 | N29 E43 N29 E44 | 01 27.0 01 27.1 | 2 | A | AXX | | 1 | | 3 |
| 4710B | 24288 | MWIL | 01 23 | 1605 | N29 E44 N28 E44 | | 2 | (AF) | A V V | | 1 | | 4 |
| 4710B | | HOLL | | | | 01 27.1 | | | AXX | | 1 | | 4 |
| 4710C | 24289 | MWIL | 01 26 | 1930 | S29 E14 | 01 27.9 | 3 | (B) | | | | | |
| 4712 | | RAMY | 02 02 | 1445 | S05 W40 | 01 30.6 | | В | CAO | 30 | 5 | 4 | 3 |
| 4712 | 24291 | MWIL | 02 02 | 1600 | S04 W39 | 01 30.8 | 4 | (B) | | | | | |
| 4712 | | PALE | 02 02 | 1907 | S05 W43 | 01 30.6 | | В | CSO | 40 | 10 | 5 | 4 |
| 4712 | | HOLL | 02 02 | 2350 | S04 W45 | 01 30.6 | | В | CSO | 80 | 8 | 6 | 2 |
| 4712 | | LEAR | 02 03 | 0033 | S04 W45 | 01 30.7 | | 8 | CSO | 60 | 11 | 6 | 3 |
| 4712 | | ATHN | 02 03 | 0638 | S04 W49 | 01 30.6 | | | CSO | 50 | 8 | 4 | 4 |
| 4712 | | RAMY | 02 03 | 1425 | S03 W54 | 01 30.6 | | В | DAO | 140 | 8 | 6 | 3 |
| 4712 | 24201 | BOUL | 02 03 | 1550 | S04 W54 | 01 30.6 | 4 | B | BXI | 70 | 7 | 8 | 3 |
| 4712 | 24291 | MWIL | 02 03 | 1600 | S03 W54 | 01 30.6 | 4 | (B) | 001 | 10 | - | 7 | 2 |
| 4712 | | HOLL | 02 03 | 1800 1940 | S03 W55 S04 W56 | 01 30.6 | | ВВ | DR I DA I | 10 | 5 9 | 7 | 3 |
| 4712 | | PALE | 02 03 | 0012 | S05 W59 | 01 30.6 | | | | 120 80 | | | |
| 4712 4712 | | LEAR | 02 04 | 0940 | S04 W65 | 01 30.6 01 30.5 | | В | DSO CSO | 50 | 9 | 8 | 3 |
| 4712 | | RAMY | 02 04 | 1339 | S03 W68 | 01 30.5 | | В | CAO | 170 | 9 | 7 | 3 |
| 4712 | | BOUL | 02 04 | 1542 | S03 W70 | 01 30.5 | | В | DSO | 90 | 5 | 10 | 3 |
| 4712 | 24291 | MWIL | 02 04 | 1630 | S03 W70 | 01 30.4 | 3 | (B) | 030 | 30 | 5 | 10 | 3 |
| 4712 | 24531 | LEAR | 02 05 | 0013 | S04 W77 | 01 30.3 | 3 | В | BXO | 60 | 6 | 6 | 2 |
| 4712 | 24291 | MWIL | 02 05 | 1545 | S02 W88 | 01 30.1 | 2 | X | DAO | 00 | V | U | ۷ |
| 4712 | 2 . 2 . 2 . 2 | RAMY | 02 05 | 1609 | 504 W87 | 01 30.2 | - | A | AXX | | 1 | | 3 |
| | | | | | | | | | | | | | |

JANUARY 1986

| Day | Start (UT) | Max (UT) | End (UT) | Imp | Wide- spread Index | Number SW F | of Sta | tion F | Reports LF- SPA | by Type SES | Known Flare | X-ray Class | NOAA/SESC Region |
|-----|---------------|-------------|-------------|-----|--------------------------|----------------|--------|--------|-----------------------|----------------|----------------|----------------|---------------------|
| 01 | 1204 | 1211 | 1225 | 1 | 1 | | 1 | | 1 | | No Flare | | |
| 04 | 0905 | 0910 | 09300 | 1 | 1 | | 1 | | | | No Flare | | |
| 05 | 1104 | 1129 | 1157 | 1 | 3 | | 2 | | | | * | | |
| 05 | 1222 | 1238 | 1300 | 1 | 3 | | 2 | | | | No Flare | | |
| 09 | 0832 | 0845 | 0930 | 1 | 1 | | 1 | | | | No Flare | | |
| 10 | 0943 | 1000 | 1021 | 1 | 1 | | 1 | | | | No Flare | | |
| 14 | 1457 | 1500 | 1516 | 1- | 3 | | | | | 2 | 1507 UT | C3.1 | 4710 |
| 15 | 0653 | 0713 | 0944 | 2+ | 3 | 1 | | 1 | | 1 | 0654 UT | M1.1 | 4710 |
| 15 | 2117 | 2119 | 2145 | 1- | 3 | | | 1 | | 1 | 2057 UT | C6.0 | |
| 15 | 2124 | 2129 | 2150 | 1+ | 1 | | | | | 1 | No Flare | | |
| 16 | 1206 | 1214 | 1310 | 1- | 5 | | 4 | 1 | | 4 | 1200 UT | C4.3 | |
| 16 | 1608 | 1617 | 1745 | 2 | 3 | | | | | 6 | 1609 UT | M6.6 | 4710 |
| 16 | 1829 | 1832 | 1920 | 2+ | 3 | | 4 | | | 4 | 1837 UT | M1.3 | 4710 |
| 17 | 0033 | 0039 | 0113 | 1- | 1 | | | 1 | | | 0030 UT | C2.0 | 4710 |
| 17 | 0116 | 0142 | 0246 | 2 | 1 | | | 1 | | | 0114 UT | C3.6 | 4710 |
| 17 | 0352 | 0406 | 0516 | 1- | 1 | | | 1 | | | 0350 UT | C1.7 | |
| 17 | 1106 | 1114U | 1124 | 1- | 1 | | 1 | | | | No Flare | | |
| 17 | 1131 | 1148U | 1219 | 1- | 1 | | 1 | | | | No Flare | | |
| 31 | 0319 | 0324 | 0349 | 1- | 3 | | 1 | 1 | | | No Flare | | |

^{*} No flare patrol

SIDs by NOAA/SESC REGION

JANUARY 1986

| ау | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|----------------|----|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| agion 710 | | | | | | | | | | | | | | 1 | 1 | 2 | 2 | | | | | | | | | | | | | | |
| -Ray | | | | | | | | | | | | | | 1 | 2 | 3 | 3 | | | | | | | | | | | | | | |
| lo Tare | 1 | | | 1 | 1 | | | | 1 | 1 | | | | | 1 | | 2 | | | | | | | | | | | | | | 1 |
| lo Flai | re | | | | i | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vent Totals | 1 | | | 1 | 2 | | | | 1 | 1 | | | | 1 | 3 | 3 | 5 | | | | | | | | | | | | | | 1 |

OBSERVATORIES REPORTING FOR JANUARY 1986

| Ayrshire, Scotland (AY) | SES | Maui, Hawaii, USA | SWF | | |
|----------------------------------|----------|-------------------------------------|------|------|-----|
| Durban, South Africa (A58) | SES | Panska Ves, Czechoslovakia (PU) | SEA, | SWF, | SES |
| Edenvale, South Africa (A52) | SES | Paterson, New Jersey, USA (A46) | SES | | |
| Farsta, Sweden (FA) | SES | Sao Paulo, Brasil (UM) | SPA, | SES | |
| Hiraiso, Japan (HI) | SWF | St. Cloud, Minnesota, USA (SC) | SES | | |
| Houston, Texas, USA (A50) | SES | Tavares, Florida, USA (A49) | SES | | |
| Inubo, Japan (IN) | SPA | Tucson, Arlzona, USA (A01) | SES | | |
| Kuhlungsborn, GDR (KU) | SPA, SEA | Upice, Czechoslovakia (UI) | SEA | | |
| Latrobe, Pennsylvania, USA (A19) | SES | Valley Cottage, New York, USA (A01) | SES | | |
| Losov, Czechoslovakia (LO) | SEA | Vsetin, Czechoslovakia (VS) | SEA | | |
| Louisville, Kentucky, USA (A26) | SES | | | | |

^{*}Observations are not necessarily continuous for each reporting station.

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

JANUARY 1986

| C | bserv | ation | | Decime Start (UT) | tric Ban | d | Metr | ic Band | | Dekame | tric B | land | | |
|------|--------------|--------------|---------|-------------------------|------------------|------|--------|---------|------|--------|--------|-------|--------|-----------|
| | Start | End | C+- | Start | End | Int | Start | End | Int | Start | End | Int | C | |
| Day | (01) | (01) | 5та | (01) | (01) (| 1-3) | (01) | (01) (| 1-3) | (11) | (01) | (1-3) | Spectr | al Type |
| 01 | 0811 | 1514 | WEIS | | | | | | | | | | | |
| 02 | 0758 | 1515 | WEIS | | | | | | | | | | | |
| 0.3 | 0218 | 0735 | CULG | | | | | | | | | | | |
| 0,5 | | 1215 | | | | | | | | | | | | |
| | | 1515 | | | | | | | | | | | | |
| | | 2400 | | | | | | | | | | | | |
| ^4 | 0000 | 0470 | 0111.0 | | | | | | | | | | | |
| 04 | | 0432 1517 | | | | | | | | | | | | |
| | | 2400 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 05 | | 0643 | | | | | | | | | | | | |
| | ^758 2037 | | WEIS | | | | | | | | | | | |
| | 2031 | 2400 | COLG | | | | | | | | | | | |
| 06 | | 0738 | CULG | | | | | | | | | | | |
| | | | WEIS | | | | | | | | | | | |
| | | 1518 | | | | | | | | | | | | |
| | 2037 | 2400 | CULG | | | | | | | | | | | |
| 07 | 0000 | 0739 | CULG | | | | | | | | | | | |
| 0, | | 1521 | | | | | | | | | | | | |
| | | 2400 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 80 | | 0345 | | | | | | | | | | | | |
| | | 1522 2400 | | | | | | | | | | | | |
| | 2041 | 2400 | COLO | | | | | | | | | | | |
| 09 | 0000 | 0739 | CULG | | | | | | | | | | | |
| | | 1522 | WEIS | | | | | | | | | | | |
| | 2039 | 2400 | CULG | | | | | | | | | | | |
| 10 | 0000 | 0739 | CULG | | | | | | | | | | | |
| | 0757 | | WEIS | | | | | | | | | | | |
| | | 1524 | | | | | | | | | | | | |
| | 2039 | | CULG | | | | | | | | | | | |
| | 0000 | 0740 | 0111.0 | | | | | | | | | | | |
| 11 | | 0740 | WEIS | | | | | | | | | | | |
| | | 1526 2400 | | | | | | | | | | | | |
| | 2010 | 2100 | 0020 | | | | | | | | | | | |
| | | 0740 | | | | | | | | | | | | |
| | | 1349 | | | | | | | | | | | | |
| | | 1527 | | | | | | | | | | | | |
| | 2040 | 2400 | CULG | | | | | | | | | | | |
| 13 | 0000 | 0740 | CULG | | | | | | | | | | | |
| | 0756 | | WEIS | | | | | | | | | | | |
| | 1501 | | WEIS | | | | | | | | | | | |
| | 2040 | 2400 | CULG | | | | | | | | | | | |
| 14 | | | LEAR | | | | 0350.6 | 0351.1 | 1 | | | | - 11 | |
| 1 ** | 0000 | 0740 | CULG | | | | 0351.0 | 0352.0 | 2 | | | | ii | |
| | 0000 | 0,40 | CULG | | | | 0359.5 | 0404.0 | | | | | 1 | |
| | 0753 | 1435 | WEIS | | | | | | _ | | | | | |
| | 1451 | | WEIS | | | | | | | | | | | |
| | 2045 | 2400 | CULG | | | | | | | | | | | |
| 1 5 | 0000 | 0741 | CIII C | 0654 5 | 0656 0 | 2 | | | | | | | | 10 |
| 15 | 0000 | 0/41 | CULG | 0654.5 0658.5 | 0656.0 0700.0 | 2 | | | | | | | 11 | IM,CON |
| | | | CULG | 00,000 | 0,00.0 | - | 0701.0 | 0719.0 | 3 | | | | 11 | 11-1,0014 |
| | | | CULG | 0701.0 | 0703.0 | 1 | | | - | | | | İV | |
| | | | LEAR | | | | 0706.0 | 0000.0 | 3 | | | | 11 | |
| | | | CULG | | | | 0716.5 | 0720.0 | 1 | | | | IS | |
| | 0752 | | WEIS | | | | | | | | | | | |
| | 0932 | | WEIS | | | | | | | | | | | |
| | 1346 | | WEIS | | | | | | | | | | | |
| | 2041 | 2400 | CULG | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

68 Jan 86

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

JANUARY 1986

| (| bserv | ation | | Decime | tric Band End Int (UT) (1-3) | Metr | ic Band | 1=+ | Dekame | tric B | and | | |
|-----|--------------|-------|--------|--------|------------------------------------|--------|---------|-----|--------|--------|--------------|--------------|-----|
|)av | CUITY | (UT) | Sta | Start | End Inf | Start | End | In† | Start | End | Inf (1-3) | Spectral | Typ |
| | | | | | | | | | | | | Speciral | |
| 6 | | 1533 | | | | | | | | | | | |
| | 2042 | 2400 | CULG | | | | | | | | | | |
| 7 | 0000 | 0742 | CILLC | | | | | | | | | | |
| 1 / | | 1535 | CULG | | | | | | | | | | |
| | 0750 | 1222 | PALE | | | 1850.0 | 1850. 1 | 1 | | | | 111 | |
| | 2042 | 2400 | | | | 10,000 | 1030.1 | | | | | | |
| | | 2100 | 0020 | | | | | | | | | | |
| 18 | 0000 | 0742 | CULG | | | | | | | | | | |
| | | | WEIS | | | | | | | | | | |
| | | 1535 | | | | | | | | | | | |
| | 2042 | 2400 | CULG | | | | | | | | | | |
| 0 | 0000 | 0603 | CULG | | | | | | | | | | |
| , | | 1538 | WEIS | | | | | | | | | | |
| | | 2400 | CULG | | | | | | | | | | |
| | 2000 | 2400 | 0000 | | | | | | | | | | |
| 0 | 0000 | 0743 | CULG | | | | | | | | | | |
| | | 1512 | WEIS | | | | | | | | | | |
| | | | WEIS | | | | | | | | | | |
| | 2043 | 2400 | CULG | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 21 | | 0743 | | | | | | | | | | | |
| | | 1541 | WEIS | | | | | | | | | | |
| | 2043 | 2400 | CULG | | | | | | | | | | |
| 2 | 0000 | 0743 | CULG | | | | | | | | | | |
| ~ | | 0946 | WEIS | | | | | | | | | | |
| | 1031 | | WEIS | | | | | | | | | | |
| | | 1542 | WEIS | | | | | | | | | | |
| | | 2400 | CULG | | | | | | | | | | |
| | | | PALE | | | 2107.5 | 2108.8 | 2 | | | | V | |
| _ | | | 0 | | | | | | | | | | |
| 3 | | 0744 | | | | | | | | | | | |
| | | | WEIS | | | | | | | | | | |
| | | 1143 | WEIS | | | | | | | | | | |
| | 2044 | | WEIS | | | | | | | | | | |
| | 2044 | 2400 | COLG | | | | | | | | | | |
| 4 | 0000 | 0744 | CULG | | | | | | | | | | |
| | | 1544 | WEIS | | | | | | | | | | |
| | 2055 | 2400 | CULG | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 5 | | 0745 | CULG | | | | | | | | | | |
| | 0744 | 1547 | WEIS | | | | | | | | | | |
| | 0047 | 0745 | 0111.0 | | | | | | | | | | |
| 0 | | 0745 | | | | | | | | | | | |
| | 0014 | 1549 | SGMR | | | 1337.8 | 1338.5 | 1 | | | | ٧ | |
| | | | SGMR | | | 1822.3 | 1823.1 | | | | | v | |
| | 2047 | 2400 | CULG | | | .022.5 | .025. | | | | | | |
| | | | | | | | | | | | | | |
| 7 | | | PALE | | | 0225.8 | 0226.6 | 1 | | | | ٧ | |
| | 0000 | 0745 | CULG | | | 0226.0 | 0227.0 | 2 | 0226.0 | 0227. | 0 1 | IIIG | |
| | | | LEAR | | | 0226.8 | 0228.5 | 1 | | | | ٧ | |
| | | | CULG | | | 0424.0 | | ! | | | | IIIB | |
| | 0770 | 1540 | CULG | | | 0427.0 | | 1 | | | | IIIB | |
| | 0739 2237 | | WEIS | | | 2250.5 | 2253.0 | 1 | | | | IIIG | |
| | 2231 | 2400 | COLG | | | 2230.5 | 2255.0 | ' | | | | 1116 | ' |
| 8 | 0000 | 0804 | CULG | | | 0728.5 | 0731.0 | 1 | | | | IIIG | |
| _ | 5.00 | 3304 | CULG | | | 0735.0 | 0738.5 | | | | | IIIG | |
| | 0739 | 1209 | WEIS | | | | | - | | | | | |
| | | | CULG | | | 0742.0 | 0754.0 | 3 | | | | 11 | |
| | 1420 | 1552 | WEIS | | | | | | | | | | |
| | | | PALE | | | 2156.6 | 2156.8 | 1 | | | | 111 | |
| | 0374 | 1651 | WELC | | | | | | | | | | |
| 9 | 0736 | | WEIS | | | 2270 = | | • | | | | | |
| | 2048 | 2400 | CULG | | | 2238.5 | | 1 | | | | 111B 111B | |
| | | | CULG | | | 2359.5 | | | | | | 1116 | |
| | | | CULG | | | 0032.0 | 0033.0 | | | | | IIIG | |

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

JANUARY 1986

| (| Observ | ation | | Decime | tric E | Band | Metr | ic Band | | kame | tric B | and | |
|-----|--------|-------|------|--------|--------|-------|--------|---------|------|--------|--------|-------|---------------|
| | Start | End | | Start | End | Int | Start | End | Int | Star: | End | Int | |
| Day | (UT) | (UT) | Sta | (UT) | (UT) | (1-3) | (TU) | (UT) (| 1-3) | | (UT) | (1-3) | Spectral Type |
| 30 | | | CULG | | | | 0053.0 | 0055.0 | | | | | IIIG,W |
| | | | CULG | | | | 0056.0 | 0057.5 | 2 | 0057.0 | 0057. | 5 1 | IIIG, V |
| | | | LEAR | | | | 3056.1 | 0057.0 | 2 | | | | ٧ |
| | | | PALE | | | | 0056.3 | 0057.1 | 1 | | | | ٧ |
| | | | CULG | | | | 0127.0 | 0127.5 | 1 | | | | IIIG |
| | | | CULG | | | | 0157.0 | 0158.5 | 1 | | | | IIIG |
| | | | CULG | | | | 0319.5 | 0320.0 | i | | | | IIIG |
| | | | CULG | | | | 0402.0 | 0520.0 | 1 | | | | IIIB |
| | | | CULG | | | | 0517.0 | | i | | | | IIIB |
| | 0735 | 1555 | WEIS | | | | 1233.0 | 1233.1 | 2 | | | | IIIG |
| | 2045 | | CULG | | | | 1233.0 | 1233. | - | | | | 1110 |
| | 2042 | 2400 | 0000 | | | | | | | | | | |
| 31 | 0000 | 0745 | CULG | | | | | | | | | | |
| ٠, | 0947 | | WEIS | | | | | | | | | | |
| | 0735 | | WEIS | | | | 1301.8 | 1302.1 | 2 | | | | IIIG |
| | 1401 | | WEIS | | | | 1301.0 | 1302.1 | - | | | | 1110 |
| | 2046 | | CULG | | | | | | | | | | |
| | 2040 | | | | | | | | | | | | |

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

B = Single burst

G = Small group (< 10) of bursts GG = Large group (> 10) of burst

GG = Large group (> 10) of burst
C = Underlying continuum (particularly with Type I)
S = Storm in the sense of intermittent but

apparently connected activity

N = Intermittent activity in this period

U = U-shaped burst of Type !!!

RS = Reverse slope burst

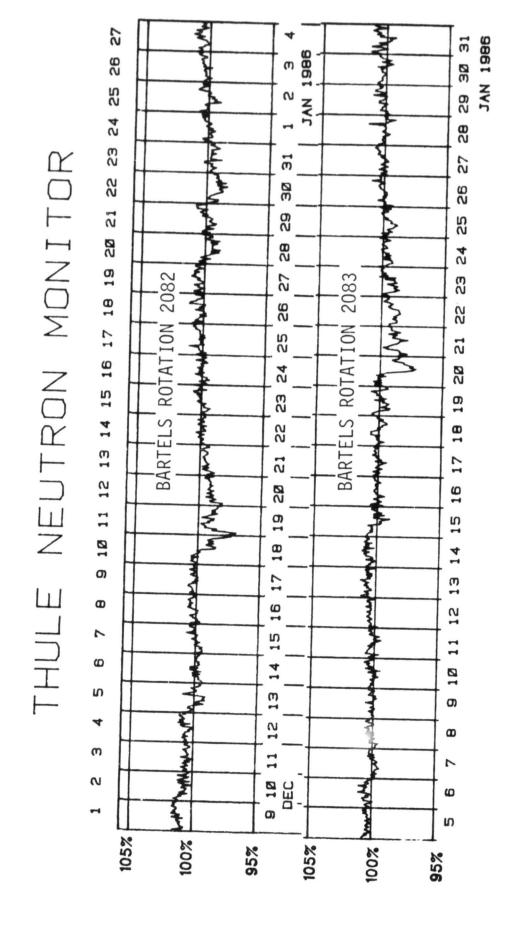
DP = Drifting pairs DC = Drifting Chains

H = Herringbone
W = Weak
P = Pulsations

CONT = Continuum

UNCLF = Unclassified activity DCIM = Fast drift

Stations Reporting:



C O S M I C R A Y I N D I C E S (Neutron Monitor)

JANUARY 1986

| Day | THULE Average (cts/h)/100 | ALERT Average (cts/h)/100 | DEEP RIVER Average (cts/h)/300 | KIEL Average (cts/h)/100 | CLIMAX Average (cts/h)/100 | PREDIGTSTUHL Average (cts/h)/100 | TOKYO Average (cts/h)/256 | HUANCAYO Average (cts/h)/100 |
|------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------|----------------------------------|--|---------------------------------|------------------------------------|
| 1 | 4455 | | | 6227.5 | | | 3640.8 | |
| 2 | 4458 | | | 6237.4 | | | 3657.2 | |
| 3 | 4473 | | | 6226.4 | | | 3654.7 | |
| 4 | 4482 | | | 6232.7 | | | 3648.9 | |
| 5 | 4492 | | | 6242.6 | | | 3661.7 | |
| 6 | 4494 | | | 6230.3 | | | 3652.6 | |
| 7 | 4471 | | | 6193.1 | | | 3644.7 | |
| 8 | 4482 | | | 6196.4 | | | 3650.9 | |
| 9 | 4479 | | | 6188.8 | | | 3654.3 | |
| 10 | 4484 | | | 6191.3 | | | 3657.7 | |
| 11 | 4485 | | | 6243.9 | | | 3662.0 | |
| 12 | 4494 | | | 6266.7 | | | 3666.4 | |
| 13 | 4506 | | | 6266.3 | | | 3667.2 | |
| 14 | 4506 | | | 6295.2 | | | 3662.0 | |
| 15 | 4482 | | | 6285.3 | | | 3658,5 | |
| 16 | 4479 | | | 6264.9 | | | 3660.3 | |
| 17 | 4479 | | | 6245.7 | | | 3644.4 | |
| 18 | 4477 | | | 6216.7 | | | 3652.2 | |
| 19 | 4469 | | | 6224.6 | | | 3657.9 | |
| 20 | 4428 | | | 6191.4 | | | 3639.9 | |
| 21 | 4424 | | | 6195.2 | | | 3653.5 | |
| 22 | 4436 | | | 6197.9 | | | 3662.7 | |
| 23 | 4453 | | | 6216.8 | | | 3653.8 | |
| 24 | 4464 | | | 6230.7 | | | 3661.2 | |
| 25 | 4461 | | | 6180.3 | | | 3648.5 | |
| 26 | 4481 | | | 6215.0 | | | 3656.7 | |
| 27 | 4485 | | | 6225.8 | | | 3662.0 | |
| 28 | 4477 | | | 6234.2 | | | 3653.4 | |
| 29 | 4488 | | | 6246.8 | | | 3658, 1 | |
| 30 | 4487 | | | 6243.3 | | | 3655.4 | |
| 31 | 4496 | | | 6237.0 | | | 3659.8 | |
| Mean | 4475 | | | 6228.7 | | | 3655.5 | |

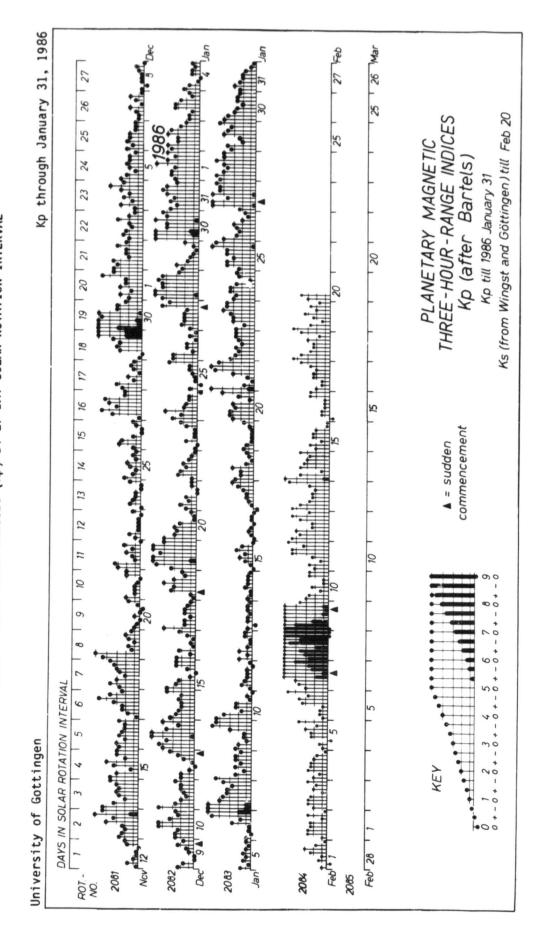
For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

| | | | | | | | | | | | | | nuar | | | 986 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|--|--|--------------------|--|---|---|---|---------------------------|---|---|---|--|--------------------|--|---------------------|---|---|---|---|--|-------------------------------------|----------------|
| Day | | 1 | 2 | (p ' | Three | -Ho | our 5 | Iу б | Ind 7 | lces 8 | Sum | Ap | Φ | | 1 | Km 2 | Thr 3 | 4 | Hour ! | - I y 5 | 1 no | dic 7 | es 8 | Am | aa N | Provi | siona | M | |
| 1 2 3 | D5 Q8 | 3+ 4- 2- 2+ | 4- 4 2- 2- 1- | 4- 3 1+ 1- | 3+ 3+ 0+ | 4 | 5 1 5+ 1+ | 4 4- 3- 1+ | 3+ 3- 1+ 1 | 4 2 2- 1+ | 30+ 26 17 10 9- | 25 18 10 5 4 | 1.0 | 2 | 3- 3- 1 2- 1+ | 3 1 1+ | 3 3- 1 0+ | 3+ 2+ 3 0+ | 4 | 4+ 4 3 1+ | 3+ 3+ 2 2- 1- | 3 2+ 1+ 1- | 3 1+ 1+ 1+ | 36 27 14 7 5 | 50 31 17 7 | 29 23 13 8 8 | 30 24 13 | 50 30 17 9 | |
| 6 7 8 9 | D2 | 6- 4+ 2+ | 0+ 6- 2+ 2 | 1+ | 4- 2+ 1+ | 2 | 5+ 2- 1+ | 3+ 2+ 3 | 5- 3- 2+ 5- 1 | 4- 2- 4+ | 18 32 18+ 20 16+ | 20 32 11 14 11 | 1. 0. 0. 0. | 5 | 1- 5 4- 2- 3+ | 5- 2 1+ | 4- 2- 1 | 3+ | | 2- 1+ | 2 3 3- 3 | 2- 4 | 3+ 1+ 4- | 29 46 17 23 15 | 34 44 19 35 18 | 34 47 13 15 18 | 7 61 20 8 27 | 29 13 43 | |
| 11 12 13 14 15 | Q7 Q2 | 1 | 2- 1 0 1- 1- | 1 | 1 1+ | 1 | 1- 1- | 1 | 1+ | 1+ 1- 1- | 8- 10 6+ 7+ 10 | 4 5 3 4 5 | 0. 0. 0. 0. | 2 | 1+ 2- 1- 1 | 1-1 | 2- 1+ 1 | 1-1 | | 1- 1- 1- | 1+ 1- 1 1 3- | 1+ 1+ 1- | 2- 0+ 1- | 7 8 6 6 13 | 7 10 6 5 | 6 6 6 14 | 7 9 6 6 | 8 | CC CC CC |
| 16 17 18 19 20 | Q1 Q10K Q5 | 0 3- 2- | 1- 2 1+ 3+ | 1 2 1- | 1+ 3 1- | 1 | + + - | 2- 1- 1- | 1- 2+ 1 1 2+ | 3 1+ 2- | 5- 114 1/ 8+ 23- | 3 6 7 4 15 | 0.0 | 5 1 | 1 0 2+ 1+ 2 | 1 2- 1+ | 1 2+ | 3 | | 1-1 | 1+ 2- 1- 1- 2- | 3- 1 1 | 3- 1+ 1+ | 6 12 13 7 26 | 3 14 15 9 30 | 3 11 14 10 21 | 3 4 22 9 25 | 21 | CK |
| 21 22 23 24 25 | D4 | 3+ 3- 3 | 2- 3- 2- 3- 4- | 2+ 3 3+ | 3- 3 3+ | 3 | 2 5+ 5- | 4 | 5 3- 4- 2+ 5+ | 4- 3- | 26+ 21- 25 21 30 | 27 11 17 12 26 | 0. | 7 | 5- 3 2+ 2+ 2+ | 2+ 2 2+ | 2 3- 3- | 3- 3+ | | 3- 3- 3 | 4 2+ 4- 1 4- | 3- 3+ 2+ | 3+ 2+ | 38 21 29 21 42 | 57 28 29 25 52 | 28 16 26 19 41 | 27 | | |
| 26 27 28 29 30 | | 2+ 4+ 3+ | 3- 5+ 5- 4- 4- | 5 4 2 | 4- 4- 2+ | 4 | 5+ ! | 4+ 5- 4- | 1+ 4+ 4 3+ 3- | 5- 4 4+ | 20- 35 33+ 27- 23 | 12 37 30 19 14 | 0. 1. 1. 1. | 5 | 3 2 4- 3- 3+ | 4 4- 3 | 4+ 3+ 2- | 3+ 4- 2 | | 5 4 4 | 2+ 4+ 4+ 3+ 3- | 4 4 3 | 4+ 4- 3 | 19 56 49 30 25 | 22 68 56 37 24 | 15 44 44 23 27 | 41 | 67 59 41 | |
| 31 Mean | | | | | 2 | | | | | | | 8 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 25.3 | | | 22.4 | |
| | | | | | our I y | | | | | | | Ks 1 | hre | -HO | url | yі | naı | ces | | | | | | F | Prov | | | | |
| | 1 | 2 | 3 | 4 | | 5 6 | 5 | 7 | 8 | | An | 1 2 | 3 | 4 | | 5 | 6 | 7 | 8 | | | | | | RI | | | | |
| | 3 3- 1+ 2- | 2 | 3+ 3- 1+ 0+ | 4- 2+ 3 0+ | 5 4 3 | | 5+ 5+ 2+ 2- | 7 3+ 2+ 1+ 1- | 4- 1+ 1+ 1 | | 42 30 15 | 1 2 | 3 3- + 1 + 1- | 3+ 2 3- 0+ | | 5 4- 4 3- 2- | 6 3 3 2- | 7 3 2+ 1+ 1 | 8 3- 1+ 2- | | | | | 0 6 4 | RI | 0 0 0 | | | : |
| 1 2 3 4 | 3 3- 1+ 2- 1+ 1- 5- 4- 2- | 3 3+ 1 0+ 1- 5- | 3+ 3- 1+ 0+ 1+ 0+ 1+ 1 | 4- 2+ 3- 0+ 1- 3+ 2+ 1+ | 3 4 2 2 1 | 5 6 5- 3 4+ 3 3+ 2 1+ 2 1 1 3- 2 4- 3 | 55+ 5+ 2+ 2- 1- 2- 5+ | 7 3+ 2+ 1+ 1- 0+ 5- 3 2+ | 8 1+ 1+ 1 1- 5 3+ 1 | | 42 30 15 7 6 28 47 | 2+ 3- 3 3 0+ 1- 2 1- | 3 3- + 1 + 1- + 1+ - 3+ + 2- + 1 | 3+ 2 3- 0+ 1 1- 3+ 2 1+ | | 5 4- 4 3- 2- 1 3- 3- 1 | 6 3 2- 2- 0+ 2 3- 2+ 3 | 7 3 2+ 1+ 1 0 5 3- | 8 3- 1+ 2- 2- 1 5 3 2- 4- | | 30 25 13 9 5 | | 67. 67. 68. 69. 70. | 0 6 4 5 7 2 6 2 | 0 0 0 0 | 0 0 0 0 0 0 0 0 | 10 11 12 13 14 16 15 | AT AT T A | |
| 1 2 3 4 5 6 7 8 9 | 3 3- 1+ 2- 1+ 1- 5- 4- 2- 3 | 3 3+ 1 0+ 1- 5- 2 1+ | 3 3+ 3- 1+ 0+ 1+ 1+ 1 1- 1- | 4- 2+ 3 0+ 1 1- 3+ 2+ 1+ 2 | 3 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5 6 5 3 4 4 3 3 4 2 1 1 1 1 3 3 - 2 3 1 4 3 3 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 55+ 5+ 2+ 2- 1- 2 ++ 3- 1+ 1- 11 | 7 3+ 2+ 1+ 0+ 5- 3 2 4+ 1 1- 1 | 8 1+ 1+ 1- 5 3+ 1 4 0 1- 1+ 0+ 0+ | | 42 30 15 7 6 28 47 18 26 | 1 2 2+ 3- 3 3 0+ 1- 2 1- 1+ 0- 1 5- 5- 4- 2- 2 1- 3+ 3 2- 1- 1 1- 1 1- 1 1- | 3 3- + 1 + 1- + 1+ - 3+ + 2- + 1 1- + 0+ | 4 3+ 2 3- 0+ 1 1- 3+ 2+ 1+ 0+ 1+ 1 | | 5 4 3- 2- 1 3- 3- 1 0+ 1 | 6 3 3 2- 0+ 2 3- 2+ 3 1- 1- 1 | 7 2+ 1+ 1 0 5 3- 2- 4- | 8 1+ 2- 2- 1 5 3 2- 4- 1 1+ 2 0+ 1 | | 30 25 13 9 5 30 45 17 20 | | 67. 67. 68. 69. 70. 71. 71. | 2 6 7 2 6 2 7 2 9 2 3 | 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 | 10 11 12 13 14 16 15 15 | AT AT T A | : |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 1 | 3 3+1 1 0+1-5-2 1+3 1+1-0 | 3 3- 1+ 0+ 1+ 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- | 4-2+3-0+1 1-3+2+1+2 1-1-3-1-1-3-1-1-1-3-1-1-1-1-1-1-1-1-1-1 | | 5 6 6 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 | 5 | 7 3+ 2+ 1- 0+ 5- 3 2 4+ 1 1- 1- 1- 2- 1- 0+ | 8 4- 1+ 1- 5 3+ 1- 1- 0+ 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- | | 42 30 15 7 6 28 47 18 26 15 | 1 2 2+ 3- 3 3 0+ 1- 2 1- 1+ 0- 1 5- 5- 4- 2- 2 1- 3+ 3 2- 1- 1 1- 1 1- 1 1- | 3 -3 +1 +1 +1 -3 +1 -3 +1 +1 -3 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 | 4 3+ 2 3- 0+ 1 1- 3+ 2 1+ 2+ 1+ 0+ 1- 1 2- 3- 1 | | 5 4- 4 3- 2- 1 3- 3- 1 0+ 1- 2 0+ 1+ 0+ 1 | 6 -3 3 2-2-0+ 2 3-2+ 3 1- 1 2+ 1 2+ 0+ 0+ | 7 3 2+ 1+ 1 0 5 3- 2- 4- 0+ 1 1+ 1+ 1 | 8 3- 1+ 2- 2- 1 5 3 2- 4- 1 1+ 2 0+ 0+ 3 1+ 1+ | | 30 25 13 9 5 30 45 17 20 15 8 9 7 | | 67. 67. 68. 69. 70. 72. 71. 72. 71. 74. 76. | | R ₁ 0 0 0 0 0 0 0 0 0 0 0 0 13 14 | 0 0 0 0 0 0 0 0 0 0 | 10 11 12 13 14 16 15 15 17 16 16 15 18 21 | AT AT A ATTTT A A TAT | |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | 1 3- 1+ 2- 1+ 1- 5- 4- 2- 3 1- 2- 1- 1- 0+ 0+ 0 2 1 2+ 5- 3- 3- 4- 1- 1- 1- 2- 1- 1- 1- 1- 1- 1- 1- 1- 1- 2- 1- 1- 1- 2- 1- 1- 2- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- | 2 3 3+1 1 0+1-5-2 1+3 1+1-0 1-1 1-1 2-1 3-1+ | 3 3+3-1+0+1+1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | 4-2+30+1-3+2+1+2 1 1 1 1 3-1 1 1+3-3 3+ | | 5 6 3 5 | 55+ 5+ 2+ 2- 1- 2- 3+ 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- | 7 3+ 1+ 0+ 5-324+ 1-111-2- 13-0+13- 43+ | 8 4- 1+ 1- 5 3+ 1 4 0 1- 1+ 0+ 1- 1+ 4- 4- 3- 1+ 4- 4- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3 | | An 42 30 15 7 6 28 47 18 26 15 5 5 12 5 11 13 6 | 1 2 2+ 3-3 3 3 0+ 1- 2 1- 1+ 0- 1 5 5- 4- 2- 2 1- 3+ 3 2- 1- 1 1 1- 1 1 2 1+ 1- 1 2+ 2- 2 2- 1- 1 2+ 2- 2 1- 1 2- 1 1- 1 2- 1 1- 1 2- 1 1- 2 1- 1 1- 2 1- 1 1- 2 1- 1 1- 2 1- 1 1- 2 1- 2 | 3 -3 -3 -1 -1 -1 -3 +1 -1 -3 +1 -1 -1 -1 -1 -1 -1 -1 -1 -1 - | 4 -3+ 3+ 23- 0+ 1 1- 3+ 2+ 1+ 0+ 1+ 1 3- 1 2- 3+ 1 4- 1+ 23- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3 | | 5 4 4 3 2 1 3 3 1 0 1 1 2 0 1 1 1 3 | 6 3 3 2 - 2 - 0 + 2 3 - 1 - 1 2 + 1 2 0 + 0 + 2 3 0 + | 7 3 2+ 1+ 1 0 5 3- 2- 4- 0+ 1 1+ 1+ 1 2+ 1 3 1+ 1+ | 8 3-1+ 2- 2- 1 5 3 2- 4- 1 1+ 2 0+ 3 1+ 3+ 4 2+ 3+ 2+ | | 30 25 13 9 5 30 45 17 20 15 8 9 7 7 7 14 6 14 14 8 | | 67. 67. 68. 68. 69. 70. 71. 71. 72. 71. 74. 76. 75. | | R ₁ 0 0 0 0 0 0 0 0 0 0 0 13 14 12 8 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 11 12 13 14 16 15 17 16 16 15 18 21 19 20 18 17 14 | AT AT T A A T T T T A A A T A T T T | |
| 1 2 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 2 4 | 1 | 2 3 3+ 1 1 0+ 1- 5- 2 1+ 1- 0 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- | 3-3+3-1+0+1+1+1-1-2-1+2-3-3-4-2+3-2- | 4 | | 5 6 3 5 | 5-5+5+225+-3-113-1-2-4+1-253-1 | 7 3++11-0+ 5-324+1 1-111-2- 13-0+13- 433+-5 1+4+4+3+ | 8 4- 1+ 1+ 1- 53+ 40 1- 1+ 0+ 0+ 1- 1+ 4- 3- 3- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4 | | An 42 30 15 7 6 28 47 18 26 15 5 12 5 11 13 6 27 40 22 31 24 | 1 2 2+ 3 3 0+ 1- 2 1+ 0- 1 5- 4- 2 1- 3+ 3 2- 1 1- 1 1- 1 1- 1 2 1- 1 1- 2 1- 1 1- 2 1- 1 1- 2 1- 1 1- 2 1- 2 1- 1 1- 2 1- 2 1- 3 1- 1 1- 2 1- 3 1- 1 1- 2 1- 3 1- | 3 3 3 3 1 1 3 1 | 4 | | 5 4 - 4 3 - 2 - 1 3 3 2 - 1 3 1 0 1 1 - 2 0 1 + 0 1 3 3 3 3 3 3 4 3 4 3 4 3 4 - | 6 3 3 2 - 2 - 0 + 2 - 2 - 3 1 - 2 - 1 1 2 + 1 2 0 + 0 + 2 3 0 + 3 + 2 + 4 4 3 - | 7 3 1+ 10 5 3- 4- 0+ 1 1+ 1+ 12+ 4 2+ 4 2+ 4- 1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+ | 8 | | 30 25 13 9 5 30 45 17 20 15 8 9 7 7 7 14 6 14 14 8 26 28 18 | | 67. 68. 69. 70. 71. 71. 71. 72. 71. 75. 74. 75. 75. 76. 69. | | R ₁ 0 0 0 0 0 0 0 0 0 0 0 13 14 12 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 11 12 13 14 16 15 15 17 16 16 15 18 21 19 20 18 17 14 13 | ATTATA ATTTT AATATA AATTTA TAATA | |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | 1 3-3-1+2-1+1-5-4-2-3 1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | 2 3+1 1 0+ 1-5-2 1+ 1-0 1-1 0+ 1-2- 1-3- 1+ 2 2 3- 3+ 2 4+ 4 3+ 3 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- | 3 3+3-1+0+1 0+4-1+1 1 2 1+1-2-1 1 1+2 1-3 1-2+3-3 2 4+3+2-3-2 | 4 | | 5 3 3 5 5 5 4 + 3 2 5 5 3 3 5 5 5 4 + 3 5 5 5 6 4 + 4 5 5 6 6 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 | 5 2 | 7 3++1-0+ 5-324+ 1-11-2- 1-0+3-433+-5 1+4+4+3+-1+ | 8 -4-1+1-1 - 5 -3+1 4 0 1-1+0+0+1 - 4+3-3-3-4 2-5-4-2 1- | | An 42 430 15 7 6 28 47 18 26 15 5 12 5 11 13 6 27 40 22 31 24 50 19 65 56 36 26 14 | 1 2 2 3 3 0 4 1 1 2 1 1 5 5 4 2 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 2 3 3 3 3 | 3 -3-3-3-1-1-1-1-3-1-1-1-1-1-1-1-1-1-1-1 | 4 - 3 + 2 3 - 0 + 1 - 3 + 2 + 2 + 1 + 0 + 1 + 1 3 - 1 - 3 + 1 + 1 + 2 + 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | 5 4 - 4 - 3 - 2 - 1 3 - 1 0 + 1 - 2 0 + 1 + 0 + 1 3 3 - 3 - 3 - 4 - 3 4 - 4 - 3 - 2 - | 6 - 3 3 2 - 2 - 0 + 2 3 - 4 - 1 2 + 1 2 0 + 0 + 2 - 4 2 3 0 + 3 + 2 + 4 4 3 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | 7 - 3 - 2 + 1 + 1 0 5 - 2 - 4 - 0 + 1 + 1 + 1 + 2 + 4 + 2 + 4 + 3 - 2 + 0 + 0 + 0 + 1 + 1 + 1 + 1 + 1 + 1 + 1 | 8 1 5 3 2 1 1 + 2 0 + 1 0 + 0 + 3 1 + 1 3 + 4 2 3 + 2 4 4 - 3 - 2 + 1 | | 30 25 13 9 5 30 45 17 20 15 8 9 7 7 14 6 14 14 8 26 26 28 18 35 20 46 41 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28 | | 67. 68. 69. 70. 71. 71. 71. 72. 71. 74. 75. 75. 74. 75. 67. 66. 68. 67. 67. 67. 67. | | R ₁ 0 0 0 0 0 0 0 0 0 0 0 13 14 12 8 0 0 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 11 12 13 14 16 15 15 17 16 16 15 18 21 19 20 18 17 14 13 11 11 11 11 11 11 11 11 11 11 11 11 | ATTA ATTTT AAAAA AATTA TAAAA A | |

DAILY AVERAGE INDICES AP

| D | 1985 | Man | | | | | | • | • | | | 1986 |
|------|------|-----|-----|--------|---------|------|--------|-----|-----|-----|-----|------|
| Day | Feb | Mar | Apr | May | Jun | Ju I | Aug | Sep | 0c† | Nov | Dec | Jan |
| 1 | 15 | 16 | 23 | 10 | 18 | 14 | 18 | 6 | 3 | 15 | 15 | 25 |
| 2 | 11 | 22 | 16 | 38 | 6 | 3 | 11 | 4 | 5 | 32 | 14 | 18 |
| 3 | 8 | 14 | 20 | 6 | 4 | 6 | 6 | 4 | 11 | 28 | 9 | 10 |
| 4 | 3 | 10 | 17 | 10 | 5 | 33 | 6 | 2 | 12 | 16 | 12 | 5 |
| 5 | 21 | 42 | 7 | 7 | 5 | 16 | 4 | 3 | 66 | 10 | 8 | 4 |
| 6 | 46 | 24 | 5 | 10 | 25 | 21 | 3 | 9 | 41 | 13 | 7 | 20 |
| 7 | 20 | 22 | 7 | 8 | 30 | 19 | 4 | 9 | 27 | 7 | 5 | 32 |
| 8 | 24 | 27 | 15 | 8 | 16 | 16 | 6 | 10 | 16 | 6 | 3 | 11 |
| 9 | 19 | 4 | 38 | 8 | 22 | 8 | 5 7 | 12 | 6 | 14 | 5 | 14 |
| 10 | 24 | 10 | 11 | 4 | 30 | 8 | 7 | 12 | 6 | 19 | 17 | 11 |
| 11 | 13 | 6 | 11 | 5 | 11 | 10 | 5 | 9 | 16 | 10 | 11 | 4 |
| 12 | 11 | 7 | 5 | 12 | 10 | 48 | 27 | 5 | 12 | 4 | 7 | 5 |
| 13 | 11 | 4 | 6 | 11 | 4 | 20 | 41 | 5 | 20 | 24 | 30 | 3 |
| 14 | 16 | 7 | 10 | 8 | 4 | 16 | 11 | 29 | 8 | 17 | 11 | 4 |
| 15 | 9 | 14 | 4 | 15 | 5 | 7 | 12 | 18 | 18 | 16 | 10 | 5 |
| 16 | 7 | 11 | 8 | 11 | 3 | 5 | 9 | 33 | 17 | 10 | 6 | 3 |
| 17 | 12 | 8 | 5 | 8 | 7 | 20 | 9 | 13 | 15 | 14 | 8 | 6 |
| 18 | 4 | 11 | 4 | 9 | 4 | 13 | 12 | 5 | 22 | 15 | 12 | 7 |
| 19 | 7 | 9 | 21 | | 3 | 8 | 12 | 35 | 14 | 14 | 41 | 4 |
| 20 | 10 | 5 | 53 | 5 | 13 | 8 | 12 | 29 | 6 | 3 | 11 | 15 |
| 21 | 8 | 5 | 103 | 8 | 7 | 5 | 10 | 23 | 16 | 5 | 5 | 27 |
| 22 | 7 | 4 | 11 | 5 | 6 | 4 | 28 | 13 | 17 | 8 | 6 | 11 |
| 23 | 7 | 5 | 12 | 4 | 7 | 13 | 17 | 9 | 13 | 4 | 4 | 17 |
| 24 | 18 | 6 | 17 | 5 8 | 5 | 12 | 7 | 17 | 8 | 4 | 10 | 12 |
| 25 | 12 | 5 | 21 | 8 | 12 | 12 | 18 | 18 | 9 | 6 | 6 | 26 |
| 26 | 5 | 8 | 30 | 9 | 21 | 16 | 14 | 19 | 4 | 6 | 8 | 12 |
| 27 | 19 | 10 | 33 | 5 5 | 13 | 15 | 15 | 17 | 4 | 20 | 12 | 37 |
| 28 | 60 | 14 | 61 | | 18 | 13 | 13 | 6 | 4 | 8 | 35 | 30 |
| 29 | | 6 | 17 | 4 | 13 | 5 | 17 | 4 | 11 | 37 | 7 | 19 |
| 30 | | 7 | 42 | 3 | 10 | 11 | 10 | 5 | 3 | 52 | 46 | 14 |
| 31 | | 10 | | 7 | | 36 | 32 | | 6 | | 22 | 8 |
| Mean | 15 | 11 | 21 | 9 | 11 | 14 | 13 | 13 | 14 | 15 | 13 | 14 |

PLANETARY 3-HOUR-RANGE INDICES (Kp) BY 27-DAY SOLAR ROTATION INTERVAL



PRINCIPAL MAGNETIC STORMS

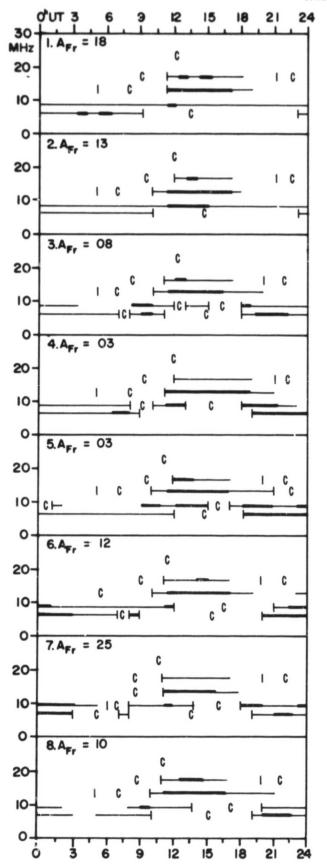
JANUARY 1986

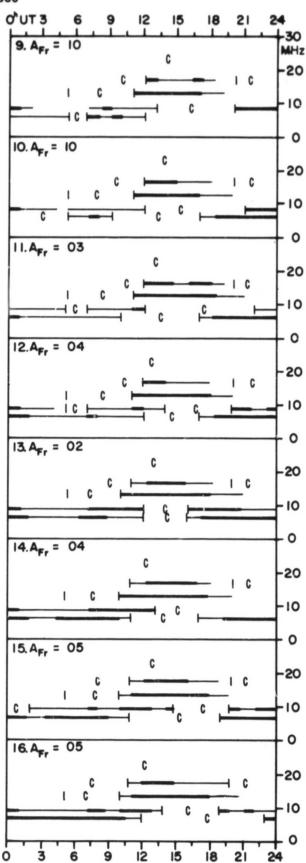
| | | Comm | nencem | nen† | | Amplitud | es | Marriage & Name & Andrew | | | Ranges | 7 | Er | nd |
|----------------|---------------|------|--------------|------|------------|--------------|--------------|---|---|------------|--------------|--------------|-----|------------|
| Sta | Geomag Lat | Day | Time (UT) | Туре | D (Min) | H (Gamma) | Z (Gamma) | Maximum 3-Hour K Index Day(3-Hour Periods) | | D (Min) | H (Gamma) | Z (Gamma) | Day | Hou (UT |
| | 64.6N | 06 | 19 | | | | | 07(4) | 6 | 87 | 1060 | 480 | 08 | 04 |
| | 54.2N | 06 | 1931 | sc* | 'i * | - 39 | •• | 06(8) | 6 | 36 | 117 | 37 | 08 | |
| | 49.6N | 06 | 17 | | | | •• | 06(8) 07(1,2) | 5 | 28 | 158 | 76 | 08 | |
| | | 06 | 17 | •• | •• | •• | •• | 06(7) | 5 | 8 | 106 | 16 | 07 | |
| | 28.5N | | 1433 | sc | •• | ii | *3 | 06(8) | 5 | 10 | 1443 | 38 | 07 | |
| | 21.1N | 06 | | SC | | 19 | - 3 | 00(0) | , | 4 | 125 | 20 | 07 | |
| | 17.3N | 06 | 1430 | | - 0.5 | 26 | | 06/7 9) | 6 | 4 | 148 | 51 | 10 | |
| | 16.4N | 06 | 1429 | SC | - 1 | | 10 | 06(7,8) | 0 | 3 | 129 | 19 | 07 | |
| | 13.5N | 06 | 1430 | SC | - 0.3 | 21 | - 4 | 06/7) | 6 | 3 | 129 | 22 | 07 | |
| 11 11 11 11 11 | 09.5N | 06 | 1430 | SC | - 0.5 | 18 | - 4 | 06(7) | 6 | 3 | | 14 | 07 | |
| | 07.6N | 06 | 1432 | SC | - 0.3 | 19 | - 1 | 06(7,8) | 5 | | 131 | | - | |
| | 04. ON | 06 | 1433 | ** | ** . | :: | •• | 06(7) | 2 | | 110 | 30 | 07 | |
| | 01.15 | 06 | 1430 | SC | - 0.1 | 18 | 22 | | _ | 3 | | 99 | 07 | |
| | 33.7 S | 06 | 14 | • • | • • | • • | •• | 06(7,8) 07(2) | 5 | 22 | | 138 | 07 | |
| CNB | 43.95 | 06 | 17 | • • | •• | • • | •• | 06(7,8) 07(1) | 5 | 11 | 121 | 47 | 07 | |
| GL | 56.5S | 06 | 14 | • • | •• | •• | •• | 06(8) | 8 | 79 | 543 | 336 | 80 | 0: |
| IIT | 54.2N | 09 | 1700 | •• | •• | •• | •• | 09(7) | 6 | 24 | 200 | 35 | 10 | 0 |
| HYB | 07.6N | 20 | 0100 | | | •• | •• | 20(4,5) 21(1) | 4 | 3 | 46 | 9 | 21 | |
| IER | 33.78 | 20 | 20 | •• | •• | •• | •• | 21(1) | 5 | 18 | 54 | 78 | 21 | 0 |
| VIT | 54.2N | 21 | 1300 | | •• | •• | •• | 21(6,7,8) | 5 | 28 | 135 | 95 | 22 | |
| | 17.3N | 21 | 1000 | | •• | •• | •• | | | 6 | 128 | 20 | 23 | 2 |
| | 16.4N | 21 | 08 | •• | •• | •• | •• | 21(5,7) | 5 | 5 | 114 | 40 | 25 | 0 |
| | 13.5N | 21 | 1000 | | •• | •• | •• | | | 4 | 123 | 14 | 23 | 2 |
| | 09.5N | 21 | 1000 | | •• | •• | •• | 21(5,7) 23(6) | 5 | 5 | 132 | 24 | 23 | 2 |
| | 07.6N | 21 | 09. | | | | | 21(6) | 6 | 4 | 119 | 9 | 22 | |
| | 01.15 | 21 | | . • | •• | :: | :: | 21107 | • | 3 | | 79 | 23 | |
| | 33.75 | 21 | 1 | •• | :: | :: | :: | 21(6) | 5 | 21 | 99 | 122 | 22 | |
| 201 | 64.6N | 25 | 08 | | | | | 25(5) | 6 | 95 | 920 | 370 | 26 | 1 |
| | 54.2N | 25 | 1400 | •• | •• | •• | | 25(7) | 6 | 30 | | 40 | 26 | |
| | | 25 | 0236 | sc | 0.1 | ii | •• | 25(3) | 5 | 9 | | 14 | 26 | 100 |
| | 28.5N | | | | | | •• | 25(5) | | 4 | | 19 | 26 | |
| | 17.3N | 25 | 0200 | | • • • | 17 | 10 | 25(7) | 6 | 6 | | 57 | 01 | - |
| | 16.4N | 25 | 0241 | SC | - 1 | 17 | | 25(7) | 0 | 3 | | 13 | 26 | |
| | 13.5N | 25 | 0200 | • • | •• | • • | •• | 05/3) | 6 | 5 | | 23 | 26 | |
| | 09.5N | 25 | 0200 | • • | ** - | :: | • • • | 25(7) | 6 | 4 | | | | |
| | 07.6N | 25 | 0235 | SC | - 0.5 | 14 | - 1 | 25(7) | | | - | 9 | 26 | |
| | 04. ON | 25 | 0235 | | • • | 06 | • • | 25(3) | 5 | | | 30 | 26 | |
| | 01.15 | 25 | 0200 | | • • | • • | • • | | _ | 4 | | 88 | 26 | |
| HER | 33.75 | 25 | 0235 | SC | 1 | 13 | 8 | 25(3,7) | 5 | 33 | 95 | 95 | 25 | 2 |
| | 64.6N | 27 | 03 | •• | •• | :: | •• | 27(3,5) | 7 | 327 | | 870 | 30 | |
| WIT | 54.2N | 27 | 0747 | | 3 | - 20 | • • | 27(7) | 6 | 23 | | 55 | 29 | |
| | 49.6N | | 02 | | • • | • • | • • | 27(2,3,5,8) 28(1,2,6) | 5 | 23 | | 29 | 30 | |
| | 17.3N | 27 | 0700 | • • | •• | • • | •• | | | 8 | | 21 | | 2 |
| | 13.5N | 27 | 0700 | | •• | • • | •• | | | 6 | 68 | 21 | 29 | |
| | 09.5N | 27 | 0700 | c • | •• | •• | •• | 27(7) 28(6) | 5 | 6 | | 27 | 29 | |
| | 07.6N | 27 | 0200 | | •• | • • | •• | 27(5,6,7) 28(5,6) | 5 | 5 | 94 | 19 | 28 | |
| | 04. ON | 27 | 0252 | | •• | •• | | 27(5) | 5 | | 130 | 20 | 27 | |
| | 01.15 | 27 | 0700 | | •• | •• | •• | | | 4 | 133 | 71 | 29 | 2 |
| | 33.75 | 27 | 02 | | ••• | | | 27(5) | 5 | 29 | 92 | 72 | 28 | 3 (|
| | 43.95 | 27 | 03 | | ••• | | | 27(5) | 5 | 17 | | 41 | 28 | |
| | 56.5S | 27 | 0631 | | 2 | - 4 | - 0 | 06(3,4,5,6,7,8) | 4 | 27 | | 105 | 29 | |
| | 70. 73 | 41 | 000 | 30 | - | - | | 07(1,2,5,6,7,8) | | | | | | |

| Stations 1 | Report | ing: |
|------------|--------|------|
|------------|--------|------|

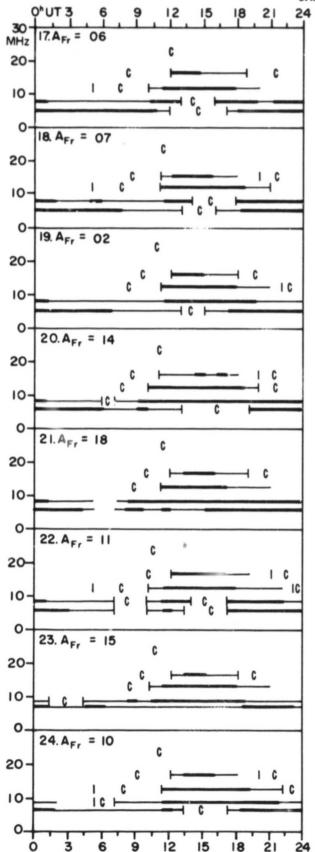
| ABG = ALIBAG | COL = COLLEGE | HER = HERMANUS | JA1 = JAIPUR | TRD = TRIVANDRUM |
|----------------|----------------------|-----------------|-----------------|------------------|
| BJI = BEIJING | FRD = FREDERICKSBURG | HON = HONOLULU | KRC = KARACHI | UJJ = UJJVIN |
| CNB = CANBERRA | GUA = GUAM | HYB = HYDERABAD | KGL = KERGUELEN | WIT = WITTEVEEN |

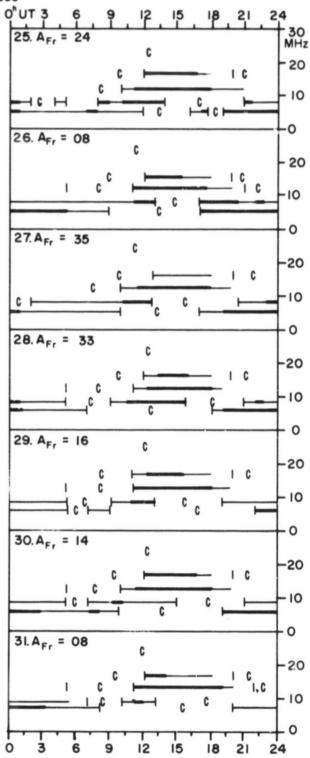
JANUARY 1986





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Field strengths from four frequencies, 6.4, 8.6, 13.0, and 17.0 MHz, observed on a Nord-deich-New York circuit are represented above. Heavy solid lines represent field strengths \geq -12 dB above 1 μ V/m (transmitter power reduced to 1 kW). Observed field strengths between -12 dB and -40 dB above 1 μ V/m are represented by the fine line.

RADIO PROPAGATION QUALITY INDICES

JANUARY 1986

| Day | Bracknell | Teheran | New York | Tokyo | Johannesburg | Canberra |
|-------------|-----------|---------|----------|-------|--------------|----------|
| 1 | 4.7 | 4.5 | 3.5 | 6.5 | 4.3 | 4.6 |
| 2 | 4.3 | 1.3 | 3.5 | 6.3 | 4.3 | 3.7 |
| 2 3 4 | 4.7 | 4.5 | 3.0 | 6.6 | 4.6 | 3.9 |
| 4 | 4.7 | 6.2 | 5.1 | 5.5 | 5.1 | 3.9 |
| 5 6 | 4.4 | 3.4 | 5.6 | 7.2 | 6.0 | 3.8 |
| 6 | 4.4 | 5.2 | 6.1 | 6.5 | 3.7 | 4.6 |
| 7 | 4.5 | 7.6 | 4.3 | 6.6 | 4.6 | 4.9 |
| 8 | 4.5 | 7.2 | 4.4 | 6.1 | 6.5 | 5.0 |
| 9 | 4.6 | 4.8 | 5.6 | 8.7 | 3.1 | 5.7 |
| 10 | 4.3 | 6.1 | 5.7 | 7.7 | 4.4 | 5.7 |
| 11 | 4.3 | 4.6 | 6.0 | 7.4 | 5.1 | 4.2 |
| 12 | 5.5 | 9.1 | 5.2 | 6.1 | 5.1 | 2.2 |
| 13 | 5.5 | 5.1 | 6.4 | 6.8 | 5.4 | 5.1 |
| 14 | 4.9 | 6.7 | 5.5 | 4.1 | 4.9 | 5.4 |
| 15 | 6.2 | 5.5 | 7.9 | 7.0 | 5.8 | 6.9 |
| 16 | 6.6 | 3.1 | 7.2 | 5.3 | 4.2 | 6.6 |
| 17 | 6.6 | 1.6 | 7.9 | 6.0 | 4.6 | 6.1 |
| 18 | 5.4 | 6.7 | 7.4 | 6.0 | 6.1 | 7.4 |
| 19 | 5.7 | 1.7 | 7.5 | 4.9 | 5.7 | 5.8 |
| 20 | 6.8 | 5.7 | 8.6 | 5.1 | 5.7 | 7.1 |
| 21 | 8.1 | 7.1 | 7.9 | 7.6 | 6.4 | 6.4 |
| 22 | 8.0 | 7.6 | 6.4 | 5.3 | 7.7 | 5.7 |
| 23 | 5.8 | 5.5 | 5.1 | 5.3 | 7.0 | 6.7 |
| 24 | 7.8 | 6.0 | 6.4 | 4.9 | 5.8 | 7.2 |
| 25 | 7.2 | 2.2 | 6.4 | 4.3 | 7.3 | 7.1 |
| 26 | 5.5 | 5.6 | 5.0 | 3.5 | 6.9 | 6.2 |
| 27 | 6.8 | 7.6 | 4.7 | 2.4 | 7.3 | 6.3 |
| 28 | 6.5 | 3.8 | 5.0 | 0.9 | 6.8 | 5.4 |
| 29 | 5.4 | 2.6 | 4.6 | 1.3 | 5.4 | 5.6 |
| 30 | 5.1 | 2.9 | 4.6 | 1.3 | 7.4 | 5.7 |
| 31 | 5.0 | 4.3 | 4.2 | 8.0 | 5.8 | 4.7 |
| Mean | 5.6 | 5.0 | 5.7 | 5.3 | 5.6 | 5.5 |

CALCULATION OF QUALITY INDICES (Q)

From all 24 hourly field strength values and from all frequencies of the same circuit a median field strength value is calculated (FD). This daily value is compared with the average value (FA) of the preceeding 27 days (1 sun rotation).

 $Q = 6.0 + 20 \log(FD/FA)/3.0$

The quality indices vary from 0.0 to 9.9 where 6.0 is normal. Conditions are "normal" (index = 6.0), if they correspond to the average of the preceding 27 days.

SCALE FOR QUALITY INDICES

0.0 - 1.0 = very poor

1.1 - 3.0 = poor

3.1 - 5.0 = fair

5.1 - 7.0 - normal

7.1 - 9.0 = good

9.1 - 9.9 = very good

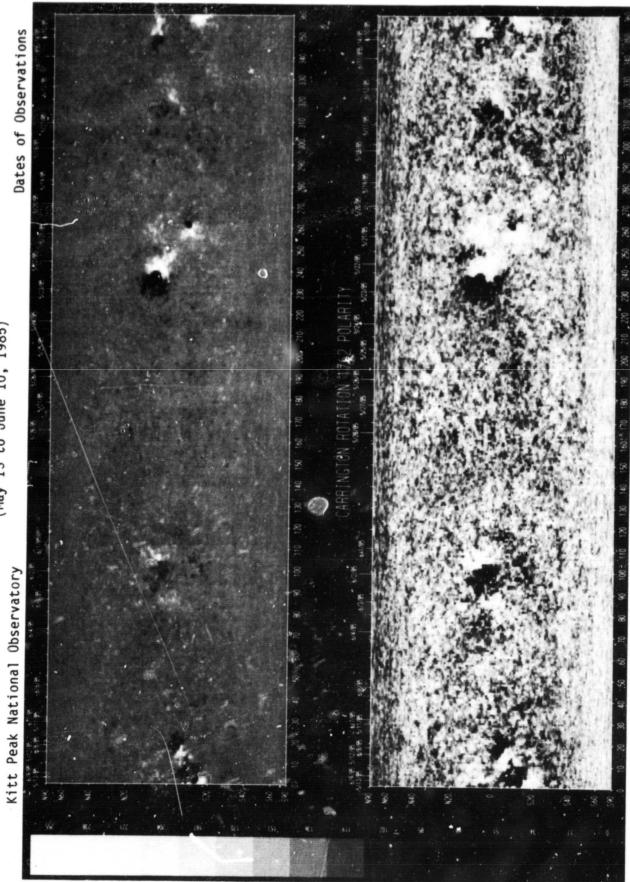
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CARRINGTON ROTATION NUMBER 1762 (May 13 to June 10, 1985)



CHAR SYNOPTIC FIELD MAGNETIC SOLAR

Dates of Observations CARRINGTON ROTATION NUMBER 1763 (June 10 to July 7, 1985) Kitt Peak National Observatory

CHART SYNOPTIC FIELD MAGNETIC SOLAR

CARRINGTON ROTATION NUMBER 1764 (July 7 to August 3, 1985)

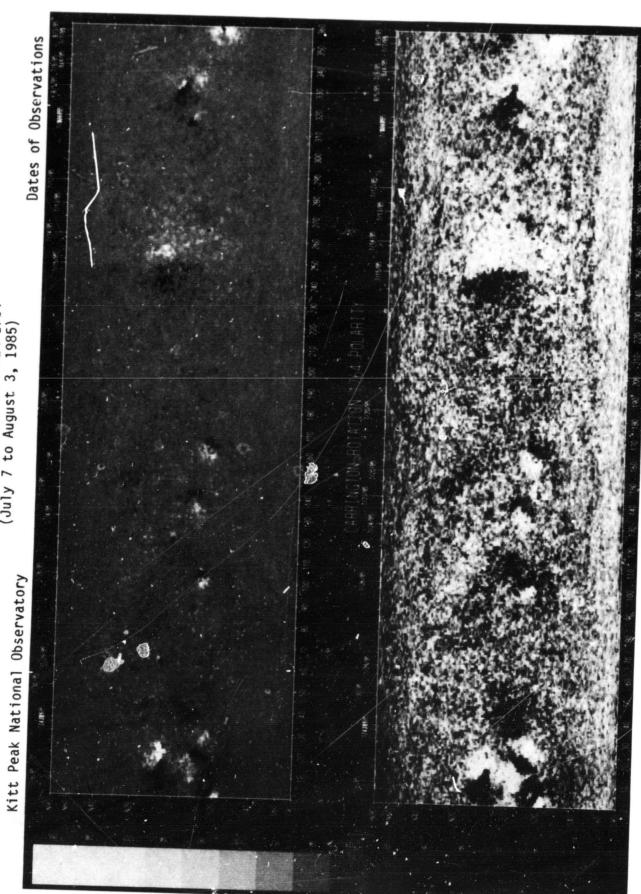
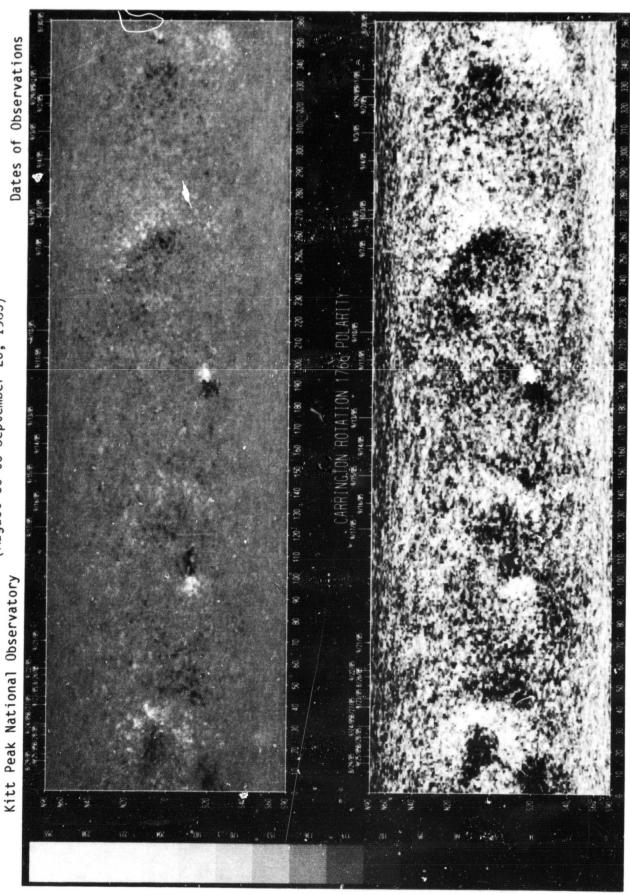


CHART SYNOPTIC CARRINGTON ROTATION NUMBER 1765 (August 3 to August 30, 1985) FIELD MAGNETIC SOLAR

Dates of Observations Kitt Peak National Observatory

~ H ပ SYNOPTIC FIELD MAGNETIC SOLAR

CARRINGTON ROTATION NUMBER 1766 (August 30 to September 26, 1985)



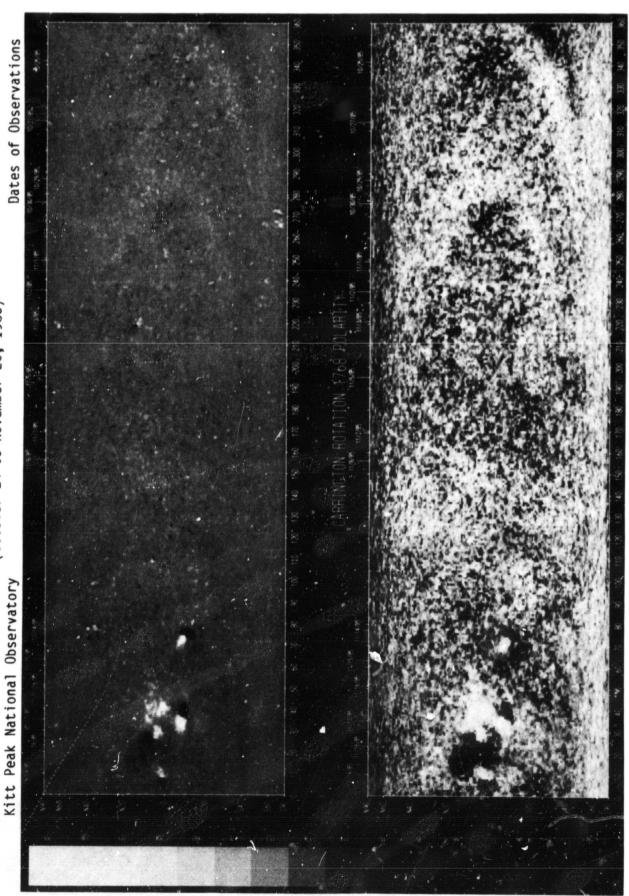
HAR ပ SVNOPTIC MAGNETIC SOLAR

(September 26 to October 24, 1985)

Dates of Observations Kitt Peak National Observatory

CHAR SYNOPTI MAGNETIC SOLAR

CARRINGTON ROTATION NUMBER 1768 (October 24 to November 20, 1985)



HART ပ SYNOPTIC AGNETIC

SOLAR

CARRINGTON ROTATION NUMBER 1769 (November 20 to December 17, 1985)



CHAR SYNOPTIC FIELD MAGNETIC SOLAR

(December 17, 1985, to January 14, 1986)

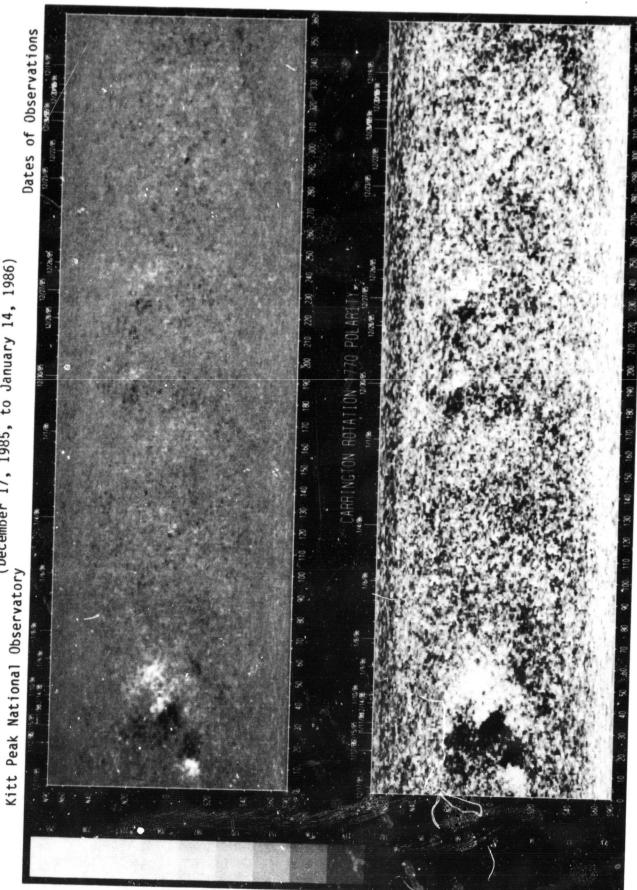


CHART SYNOPTIC FIELD MAGNETIC SOLAR

(January 14 to February 10, 1986)

Dates of Observations Kitt Peak National Observatory

JUNE 1985
 Observation
 Decimetric Band
 Metric Band
 Dekametric Band

 Start End
 Start End Int
 Start End Int
 Start End Int

 Day (UT) (UT) Sta
 (UT) (UT) (1-3) (UT) (UT) (1-3) (UT) (UT) (1-3)
 (UT) (UT) (UT) (1-3) Spectral Type
 02 2250 2400 CHI C

| 02 | 2250 | 2400 | CULG | | | | | | | | | | | |
|----|--------------|--------------|--------------|------------------|------------------|---|------------------|------------------|-----|--------|--------|---|----|----------------------|
| 03 | 0000 2240 | 0207 2311 | CULG | | | | | | | | | | | |
| 05 | 2244 | 2400 | CULG | | | | | | | | | | | |
| 06 | | 0730 2400 | CULG | | | | | | | | | | | |
| 07 | | 07i3 2400 | CULG | | | | | | | | | | | |
| 08 | 0000 | 0730 | CULG | | | | 0021.5 | 0025.5 0058.0 | 1 | 0034.0 | 0040.5 | 1 | 11 | IIIG,V |
| | 2031 | 2400 | CULG | | | | 0319.0 | 0319.5 | 2 | 0034.0 | 0040.7 | | | IIIG,U |
| 09 | | 0730 2400 | CULG | 0119.0 | | 1 | 0119.0 2228.5 | | 2 | | | , | | 111B 111B |
| 10 | 0000 | 0731 | CULG | | | | 0208.0 | | 2 | | | | | IIIG |
| | 2031 | 2400 | CULG | | | | 0608.0 2147.0 | 0608.5 | 1 | | | | | IIIG,U |
| | | | CULG | | | | 2329.0 2355.5 | 2330.0 2356.0 | 1 | | | | | IIIG,U IIIG |
| 11 | 0000 | 0720 | CULG | 0302.0 | 0304.5 | | 0051.5 0259.0 | 0306.0 | 1 | | | | | IIIB |
| | 2032 | 2400 | CULG | | • | | 0546.5 | 0547.5 | 1 2 | | | | | IIIG |
| 12 | | 0700 2400 | CULG | | | | 0000.5 | 0007.0 | 2 | | | | 11 | |
| 13 | | 0705 2400 | CULG | | | | 0046.0 | 0046.5 | 2 | | | | | IIIG |
| 14 | | 0732 2400 | CULG | | | | | | | | | | | |
| 15 | 0000 | 0732 | CULG | 0159.5 0246.0 | 0201.5 0246.5 | 1 | 0158.5 | 0202.0 | 1 | | | | | IIIS IIIG |
| | 2032 | 2400 | CULG CULG | 0321.5 | 0322.0 | 1 | 2114.0 2226.5 | 2119.5 | 1 | | | | | IIIG IIIS IIIB |
| 16 | 0000 2033 | 0730 2400 | CULG | | | | | | | , | | | | |
| 17 | 0000 | 0730 | CULG | | | | 0014.0 0017.0 | 0017.0 0033.0 | 2 | | | | П | IIIG |
| | 2034 | 2400 | | | | | 0017.0 | 0033.0 | - | | | | 7 | |
| 18 | | 0730 2400 | | | | | | | | | | | | |
| 19 | | 0730 2400 | | | | | | | | | | | | |
| 20 | | 0733 2400 | | | | | | | | | | | | |
| 21 | | 0709 2400 | | | | | | | | | | | | |
| 22 | 0000 2034 | 0734 2400 | CULG | | | | | | | | | | | |
| | 2034 | 0734 2400 | CULG | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

JUNE 1985

| | Observation | | | Decime | tric B | and | Metr | ic Band | | Dekame | tric Band | |
|----|-------------|------|------|--------|--------|-----|--------|---------|-----|--------|-----------|---------------|
| | Start | End | | Start | End | Int | Start | End | Int | Start | End Int | |
| | | | | | | | | | | | | Spectral Type |
| | | 0734 | | | | | | | | | | |
| | 2034 | 2400 | CULG | | | | | | | | | |
| 25 | 0000 | 0734 | CULG | | | | | | | | | |
| | 2035 | 2400 | CULG | | | | | | | | | |
| 26 | 0000 | 0627 | CULG | | | | | | | | | |
| | 2036 | 2400 | CULG | | | | 2211.0 | | 1 | | | IIIB |
| | | | CULG | | | | 2246.5 | | 1 | | | 1118 |
| | | | CULG | | | | 2248.0 | 2248.5 | 1 | 2248.5 | 1 | IIIG |
| | | | CULG | | | | 2332.0 | | 1 | | | IIIB |
| 27 | 0000 | 0735 | CULG | | | | 0022.0 | | | | | IIIB,W |
| | | | CULG | | | | 0027.0 | | | | | IIIB,W |
| | | | CULG | | | | 0331.5 | | | | | IIIB,W |
| | | | CULG | | | | 0434.5 | 0435.0 | | | | IIIB,W |
| | | | CULG | | | | 0605.5 | | | | | IIIB,W |
| | 2035 | 2400 | CULG | | | | 2113.0 | 2114.0 | | | | IIIG |
| | | * | CULG | | | | 2119.0 | 2124.5 | | | | IIIS |
| | | | CULG | | | | 2121.5 | 2129.5 | 2 | | | IIIN |
| | | | CULG | | | | 2248.0 | | 1 | | | IIIG |
| | | | CULG | | | | 2310.5 | 2312.0 | 3 | | | IIIG,V |
| | | | CULG | | | | 2313.0 | | 1 | | | IIIB |
| 28 | 0000 | 0735 | CULG | | | | 0215.5 | | 1 | | | IIIB |
| | 2035 | 2400 | CULG | | | | 2106.5 | 2235,5 | | | | IIIN |
| | | | CULG | | | | 2138.5 | 2139.0 | 2 | | | IIIB,U |
| 29 | | 0735 | | | | | | | | | | |
| | 2035 | 2400 | CULG | | | | | | | | | |
| 30 | | 0735 | | | | | 2127.2 | | | | | 18601.5 |
| | | 2400 | | | | | 2107.0 | - | | | | UNCLF |

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

B = Single burst

G = Small group (< 10) of bursts

GG = Large group (> 10) of burst

GG = Large group (> 10) of burst
C = Underlying continuum (particularly with Type I)
S = Storm in the sense of intermittent but
apparently connected activity
N = Intermittent activity in this period

U = U-shaped burst of Type III

RS = Reverse slope burst

DP = Drifting pairs
DC = Drifting Chains

H = Herringbone
W = Weak
P = Pulsations

CONT = Continuum
UNCLF = Unclassified activity
DCIM = Fast drift

JUIL Y 1985 Decimetric Band Observation Metric Band Dekametric Band Start End Start End Int Start End Int Start End Int Day (UT) (UT) Sta (UT) (UT) (1-3) (UT) (UT) (1-3) (UT) (1-3) Spectral Type (UT) ---------------------CULG 0000 0734 0132.5 2 LLIB CULG 0310.0 0310.5 IIIB 2039 2400 CULG 02 0000 0736 CULG 2036 2400 CULG 2118.0 2118,5 1 2116.0 2119.0 2 111G 2119.5 CULG 2122.5 3 2119.5 2122.5 3 IIIG, V 2119.5 2130.0 1 CULG CONT , H CULG 2120.0 2150,5 3 2126.0 2137.0 2 11 CULG 2120.0 2217.0 2 17 SWF, W CULG 2122.0 2150.0 2128.5 2200.0 2 CULG CULG 2223.5 2224.0 IIIG CULG 2337.0 2337.5 1 IIIG 0000 0736 CULG 2036 2400 CULG 0000 0736 CULG 2036 2400 CULG 0000 0736 CULG 2035 2400 CULG 0352.0 0000 0659 CILLG 0652.0 1 LLIG 06 CULG 0426.0 IIIG 0038 2400 2351.0 IIIG CULG 0002.5 0658,5 1 0045.5 0244.0 1 CULG IN 0000 0736 0222.0 LIIG CULG 0222.5 1 0222.5 2037 2400 CULG 2119.5 IIIB CULG 2234.0 CULG 2249.0 1 0028.0 CULG 0058.0 1 IN 0000 0736 CULG 0412.0 0608.0 IN 0608.0 0708.5 1 IS CULG 2037 2400 CULG 2228.0 2326.0 1 IN 0000 0737 CULG 0031.0 0032. 0129.5 0130.0 2 IIIB,U CULG 0139.5 0200.0 1 CONT CULG 0146.0 IIIG CULG CULG 0149.0 0217.0 2 CONT 0150.0 0220.0 1 SWF CULG 0154.0 0152.5 0154.5 2 0154.5 1 IIIG,Z CULG 0222.5 3 CULG 0154.5 0221.0 3 0157.5 11 ,н 0200.0 CULG 0705.0 2 0200.0 0656.0 2 0212.5 CULG 0342.0 DC IM, N UNCLF 0310.5 0311.0 2 CULG 0351.5 0457.0 2 1115 CULG 0705.0 0425.5 0631.5 1 0344.0 IS,C,DC CULG CULG 0457.0 0542.0 IIIN 0457.0 0646.0 CULG IIIS 0516.0 0515.0 CULG IIIG 0517.0 0517.5 1 0517.5 1 CULG 0517.0 IIIG CULG 0624.0 0625.0 1 DCIM 2400.0 1 IN 0037 2400 CULG 2136.0 2314.5 1 IIIB CULG 0458.0 1 10 0000 0737 CULG 0000.0 IN 0458.0 0705.0 1 0155.5 0552.0 IS,C CULG 0516.0 IIIB CULG 0549.0 0653.0 HIIN CULG CULG 0552.0 0708,5 2 IS,C,SCINT 0557.0 0539.5 1 DCIM CULG DC IM, CONT CULG 0604.5 0607.5 2 0637.0 0646.0 2 IIIN CULG 2141.0 2307.0 1 2037 2400 CULG 15 2307.0 2400.0 1 IN CULG 2357.0 2335,7 2 IIIG CULG 0628.0 1 0000.0 IN 11 0000 0655 CULG LLIB CULG 0004.0 1 0019.5

JULY 1985

| ; |)bc | **!or | | Decleo | tele De- | | JULY | 1985 | | Dakasa | tele D | | | | |
|-----|--------------|----------------------|----------------------|------------------|------------------|-------|----------------------------|--------|-------|--------|--------|-------|----|--------------------|-----|
| | | | | Decime Start | End Bar | In† | Start | End | Int | Start | | | | | |
| Day | (UT) | (UT) | Sta | | (UT) | (1-3) | (TU) | (UT) | (1-3) | (UT) | (UT) | (1-3) | | | |
| 11 | 2040 | 2400 | CULG CULG CULG | 0613.0 2112.0 | 2400.0 | 1 | 0354.5 0442.0 | 0355.0 | 1 | | | | ٠. | ! B G | |
| 12 | | 0737 | CULG | 0000.0 | 0010.5 0700.0 | 1 | | | | | | | | IS IN | |
| | 2037 | 2400 | CULG | | | | 0528.5 2152.0 | | 1 | | | | | IIIB | |
| 13 | | 0737 2400 | | | | | 0515.5 | 0516.5 | 1 | | | | | IIIG | |
| 14 | | 0737 2400 | | | | | 0028.5 | 0027.0 | 1 | | | | | IIIB | |
| 15 | | 0738 2400 | CULG | | | | 2343.0 | 2343,5 | 1 | | | | | IIIG | |
| 16 | | 0725 2400 | | | | | | | | | | | | | |
| 17 | | 0738 0738 2400 | CULG | 0325,5 | 0326.0 | 1 | 0325,5 | 0405,5 | 2 | 0328.0 | 0338.0 |) 1 | П | ıs | |
| 18 | | 0738 2400 | | | | | 0238.5 | 0239.0 | 1 | | | | | IIIG | |
| 19 | 2038 | 2400 | CULG | | | | 2351.5 | 2400.0 | 2 | | | | 11 | | |
| 20 | | 0738 2400 | | | | | 0000.0 | 0026.0 | 1 | | | | 11 | | |
| 21 | | 0658 2400 | CULG | | | | | | | | | | | | |
| 22 | | 0738 2400 | | | | | | | | | | | | | |
| 23 | | 0738 2400 | | | | | | | | | | | | | |
| 24 | | 0738 2400 | | | | | | | | | | | | | |
| 25 | 0000 2038 | | CULG | | | | | | | | | | | | |
| 26 | 0000 2038 | 0707 2400 | CULG CULG CULG | | | | 2234.0 2236.5 | | 1 | | | | | IIIB | |
| 27 | | 0738 2400 | CULG | | | | | | | | | | | | |
| 28 | 0000 0038 | | CULG | | | | | | | | | | | | |
| 29 | 0000 | 0738 | CULG | 0103.5 | 0707.5 | 1 | ^34 . 5 | 0235.0 | 1 | | | | | IN IIIB | |
| | | | CULG | 0606.5 | 0607.5 | 2 | U606.5 | 0607.0 | 3 | 0607.0 | 0607. | 5 2 | | IIIG | , V |
| | 2038 | 2400 | CULG CULG CULG | 2103.5 | 2350.0 | 1 | 0628.0 2152.0 2153.5 | | 1 1 1 | | | | | IN IIIB IIIB | |
| 30 | | 0738 2400 | CULG | 0021.0 | 0715.5 | 1 | | | | | | | | IN | |
| 31 | _ ,_, | | CULG | 0536.0 | 0537.5 | 2 | 0536.0 | 0537.5 | | 0536.5 | 0537. | 0 1 | | IIIG | , v |
| | | 0633 2400 | CULG CULG | 0833.5 | 0336,5 | 1 | 0542.0 | 0543.0 | 1 | | | | 11 | IIIG | |

20 0000 0735 CULG

SOLAR RADIC EMISSION SPECTRAL OBSERVATIONS

AUGUST 1985 Observation Decimetric Band Metric Band Dekametric Band | Decimetric Band | Metr | Start | End | Int | Start | (UT) | (UT) | (1-3) | (UT) | | Dekametric Band | End | Int | Start | End | Int | (UT) | (UT) | (UT) | (UT) | (1-3) | Start End (UT) (UT) (1-3) Spectral Type Day (UT) (UT) Sta ------01 0000 0738 CULG 0426.0 1 2038 2400 CULG 02 0000 0738 CULG 0414.5 0424.0 1 IN 2209.5 1 2038 2400 CULG 2059.5 IN CULG 2140.0 2206.0 1 IIIN 03 0000 0738 CULG 0153.0 2038 2400 CULG 2052.5 2217.0 1 15 2119.5 2328.0 1 CULG 2400.0 1 2217.0 IN 04 0000 0738 CULG 0002.5 0015.5 1 IN CULG 0216.0 CULG 0342.0 0613.0 0620,5 1 15 CULG 05 0000 0625 CULG 2038 2400 CULG 2040 2400 CULG 06 0000 0737 CULG 2038 2400 CULG 2058,5 2117.5 1 2103.5 2108.6 IIIN 2229.0 2229.5 2 2229.0 2229.5 2 CULG IIIG 07 0000 0737 CULG 0236.5 0137.0 1 DCIM 0309.0 0312.0 1 DCIM CULG 0309.5 0310.0 1 IIIB CULG 0310.5 CULG LIIB 0348.5 1 CULG 0348.0 DCIM CULG 0535.0 0535,5 1 IIIG 2037 2400 CULG 08 0000 0737 CULG 2125.0 2037 2400 CULG 2126.0 1 DCIM CULG 2330.5 2333.0 1 1115 09 0000 0737 CULG 0132.0 0132.0 0407.0 0407.5 CULG 0407.0 1 IIIB. V 0635,5 0636,5 1 CULG IIIG 2036 2400 CULG 10 0000 0655 CULG 2110 2400 CULG 11 0000 0736 CULG 2036 2400 CULG 12 0000 0736 CULG 2037 2400 CULG 0000 0736 CULG 2036 2400 CULG 14 0000 0736 CULG 2036 2400 CULG 0000 0736 CULG 2036 2400 CULG 0000 0730 CULG 2038 2400 CULG 17 0000 0736 CULG 2036 2400 CULG 18 0000 0736 CULG 2035 2400 CULG 19 0000 0735 CULG 2035 2400 CULG

AUGUST 1985

| | Observation Start End | | | Decime | tric B | and | Metr | Ic Ban | d | Dekame | etric B | | |
|----|--------------------------|--------------|-----|---------------|--------|-------|------|--------|-------|--------|---------|------|--|
| | (UT) | (UT) | Sta | Start (UT) | (UT) | (1-3) | (UT) | (UT) | (1-3) | (UT) | (UT) | | |
| | | 2400 | | | | | | | | | | | |
| 21 | | 0650 2400 | | | | | | | | | | | |
| 22 | | 0735 2400 | | | | | | | | | | | |
| 23 | | 0735 2400 | | | | | | | | | | | |
| 24 | | 0734 2400 | | | | | | | | | | | |
| 25 | | 0734 2400 | | | | | | | | | | | |
| 26 | | 0720 2400 | | | | | | | | | | | |
| 27 | | 0733 2400 | | | | | | | | | | | |
| 28 | | 0733 2400 | | | | | | | | | | | |
| 29 | | 0732 2400 | | | | | | | | | | | |
| 30 | | 0732 2400 | | | | | | | | | | | |
| 31 | | 0705 2400 | | | | | | | | | | | |

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

B = Single burst

G = Small group (< 10) of bursts GG = Large group (> 10) of burst

C = Undo: lying continuum (particularly with T,pe I)
S = Storm in the sense of intermittent but
apparently connected activity
N = Intermittent activity in this period
U = U-shaped burst of Type III

RS = Reverse slope burst

DP = Drifting pairs DC = Drifting Chains

H = Herringbone W = Weak P = Pulsations

CONT = Continuum
UNCLF = Unclassified activity
DCIM = Fast drift

SEPTEMBER 1985

| (| bserv | ation | | Decimetric Band Start End Int (UT) (UT) (1-3) | | Metr | ic Band | | Dekame | tric Band | 1 | | | |
|-----|---------------|------------------------------|------|---|-------------|--------------|------------------|------------------|--------------|---------------|----------------|-----------|--------------|------|
| Day | Start (UT) | (UT) | Sta | Start (UT) | End (UT) | Int (1-3) | Start (UT) | End (UT) | Int (1-3) | Start (UT) | End (UT) (1 | n† -3) | Spectral | Туре |
| | 0000 | 0731 2400 | CULG | | | | | | | | | | | |
| 02 | | 0731 2400 | | | | | | | | | | | | |
| 03 | 0000 | 0731 2400 | CULG | | | | | | | | | | | |
| 04 | 0000 | 0731 | CULG | | | | | | | | | | | |
| 05 | | 2400 0657 | | | | | | | | | | | | |
| 06 | | 2400 0730 | | | | | | | | | | | | |
| | 2030 | 2400 | CULG | | | | | | | | | | | |
| 07 | | 0730 2400 | | | | | | | | | | | | |
| 80 | | 0730 2400 | | | | | | | | | | | | |
| 09 | | 0730 2400 | | | | | | | | | | | | |
| 10 | | 0730 2400 | | | | | | | | | | | | |
| 11 | | 0730 2400 | | | | | | | | | | | | |
| | | 0730 2258 | | | | | | | | | | | | |
| | | 2400 | | | | | | | | | | | | |
| | 0000 0603 | 0315 0730 0727 2400 | CULG | | | | | | | | | | | |
| | | 0730 2400 | | | | | | | | | | | | |
| | 0643 | 0510 0730 2400 | CULG | | | | | | | | | | | |
| 17 | | 0730 2400 | | | | | | | | | | | | |
| 18 | | 0730 2400 | | | | | 0309.0 2211.0 | 0309.5 2211.5 | | 2211.0 | 2211.5 | 1 | IIIG IIIG | |
| 19 | 2030 | 2400 | CULG | | | | 2139.0 | 2142.5 | 3 | | | | IIIG | |
| 20 | | 0730 2400 | | | | | | | | | | | | |
| | | 0730 2400 | | | | | | | | | | | | |
| 22 | 0000 | 0058 | CULG | | | | | | | | | | | |
| 23 | | 0730 2400 | | | | | | | | | | | | |
| 24 | | 0730 2400 | | | | | | | | | | | | |

SEPTEMBER 1985

| (| Observ | ation | | Decim | etric B | and | Met | ric Ban | d | Dekam | etric B | and | | |
|-----|--------------|--------------|--------------|---------------|-------------|--------------|---------------|-------------|--------------|---------------|-------------|--------------|----------|------|
| Day | Star: | End (UT) | Sta | Start (UT) | End (UT) | Int (1-3) | Start (UT) | End (UT) | Int (1-3) | Start (UT) | End (UT) | Int (1-3) | Spectral | Туре |
| 25 | | 0720 2400 | CULG | | | | | | •••••• | | | | | |
| 26 | | 0730 2400 | CULG CULG | | | | | | | | , | | | |
| 27 | | 0730 2400 | CULG | | | | | | | | | | | |
| 28 | | 0730 2400 | CULG | | | | | | | | | | | |
| 29 | | 0730 2430 | CULG | | | | | | | | | | | |
| 30 | 0000 2030 | 0730 2400 | CULG | | | | | | | | | | | |

B = Single burst G = Small group (< 10) of bursts

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N = Intermittent activity in this period
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RS = Reverse slope burst DP = Drifting pairs DC = Drifting Chains

H = Herringbone W = Weak P = Pulsations

CONT = Continuum
UNCLF = Unclassified activity
DCIM = Fast drift

98 Late Oct 85

S O L A R R A D I O E M I S S I O N S P E C T R A L O B S E R Y A T I O N S

OCTOBER 1985

| Day | Observ Start (UT) | end (UT) | Sta | Decime Start (UT) | tric Ba End (UT) | int (1-3) | Metr Start (UT) | ic Band End (UT) | Int (1-3) | Dekame Start (UT) | tric Ba End (UT) | int (1-3) | Spectral | Туре |
|-----|-------------------------|----------------------|--------------------------------------|-------------------------|------------------------|--------------|--|--|--------------|-------------------------|------------------------|--------------|--|------|
| | 0000 | 0730 2400 | CULG | | | | | | | | | | | |
| 02 | | 0730 2400 | | | | | | | | | | | | |
| 03 | | 0730 2400 | | | | | | | | | | | | |
| 04 | | 0730 2400 | | | | | | | | | | | | |
| 05 | | 0730 2400 | | | | | | | | | | | | |
| 06 | | 0720 2400 | | | | | | | | | | | | |
| 07 | | 0720 2400 | | | | | | | | | | | | |
| 08 | | 0720 2400 | | | | | | | | | | | | |
| 09 | | 0720 2400 | | | | | | | | | | | | |
| 10 | 0000 | 0720 | CULG | | | | | | | | | | | |
| 11 | | 0720 2400 | | | | | | | | | | | | |
| 12 | | 0600 2400 | | | | | | | | | | | | |
| 13 | | 0720 2400 | | | | | | | | | | | | |
| 14 | | 0720 2400 | | | | | 0607.0 | | 2 | | | | IIIB | |
| 15 | | 0720 2400 | | | | | | | | | | | | |
| 16 | 2020 | 0720 2400 2400 | CULG | | | | 2031.0 2103.0 | | 1 | | | | 111B 111B | |
| 17 | | 0720 2400 | CULG | | | | | | | | | | | |
| 18 | 0000 2020 | | CULG | | | | 0607.0 2230.0 | 2257.0 | 1 | | | | IIIB IS | |
| 19 | 0000 | 0720 | CULG CULG CULG | | | | 0437.0 0459.0 0528.0 | 0438.0 0459.5 0529.0 | | | | | G G G | |
| | 2020 | 2400 | CULG | | | | 0928.0 | 0929.0 | 2 | | | | 1116 | |
| 20 | 0020 2020 | 0720 2400 | CULG CULG CULG CULG CULG | | | | 2105.0 2157.5 2231.0 2244.0 2257.0 | 2116.0 2158.0 2232.0 2329.0 2258.0 | 2 | | | | | 9 |
| 21 | 0000 | 0720 | CULG CULG CULG | | | | 0004.5 0133.5 0353.0 0450.0 | 0605.5 0135.0 0355.5 0452.5 | 2 | | | | N G G G | |

OCTOBER 1985

| (| bserv | ation | | Decime | tric Ban | d | Metr | ic Band | | Dekame | tric Ba | nd | | |
|-----|---------------|--------------|--|---------------|---------------|------|--|--|---|--|-------------|--------------|---|------------|
| Day | Start (UT) | End (UT) | Sta | Start (UT) | End (UT) (| 1-3) | Start (UT) | End (UT) | In† (1-3) | Dekame Start (UT) | End (UT) | In† (1-3) | Spectral | |
| 21 | | 2400 | CULG CULG | | 0522.0 | 1 | 0510.0 0535.5 0538.5 2018.0 2044.0 2113.5 2232.0 2236.0 2240.0 2309.0 | | 2 3 3 1 1 2 2 3 3 | | | | 1118 1118, 1118, 1118 11116 1115 1118 | , v |
| 22 | 2020 | | CULG CULG CULG CULG CULG CULG CULG CULG | | | | 0229.0 0315.0 0349.0 0502.0 0535.5 0635.0 2054.0 2102.5 2255.5 2259.0 2305.5 2306.5 | 0229.5 0720.0 0504.0 0536.0 0635.5 2057.0 2103.0 2256.0 2300.0 | 1 1 2 3 1 2 2 1 | 2054.5 | 2056, 5 | 2 | | , U |
| 23 | 0000 2016 | | CULG | | | | 2210.5 | 2212.0 | 2 | 2211.0 | 2213.0 | 2 | IIIG, | , v |
| 24 | | 0716 2400 | CULG CULG CULG CULG CULG CULG CULG | 0609.5 | 0610.0 | 1 | 0043.5 0609.5 2139.5 2153.5 2210.5 2219.0 | 0610.0 2140.5 2154.0 2214.5 2226.0 | 2 2 2 | 0043.5 0249.0 0253.0 2153.5 2211.5 2219.0 | 2154.0 | 2 2 | | G |
| 25 | | | CULG CULG CULG CULG CULG CULG | 2203.0 | 2205.0 | 1 | 0043.0 0115.0 0131.5 0141.5 2023.0 2203.0 | 0043.5 0133.5 0142.0 2023.5 | 1 1 3 | 0131.5 0141.5 | | | IIIB IIIB IIIG IIIB DCIM | , v |
| 26 | | | CULG CULG CULG | | | | 0449.5 0501.0 2265.0 | 0458.0 0506.5 | | | | | IN N B | |
| 27 | | 0705 2400 | | | | | 2327.5 | 2328.0 | 2 | 2328.0 | | 1 | IIIB | |
| 28 | | 0716 2400 | CULG | | | | | | | | | | | |
| 29 | | | CULG | | | | | | | | | | | |
| 30 | | | CULG | | | | | | | | | | | |
| 31 | 0000 | 0443 | CULG | | | | | | | | | | | |

NOVEMBER 1985

| (| | | | | Decimetric Band | | | | | | | | |
|-----|--------------|------|--------------|---------------|-----------------|--|----------------|--------------|--------|--|---|----------|------|
| Day | | | | Start (UT) | | | Start ('UT) | int (1-3) | | | | Spectral | Туре |
| 18 | 0514 2017 | | | | | | 2328.0 | 2 | 2328.0 | | 2 | IIIB | |
| 19 | 0000 2017 | | CULG CULG | | | | | | | | | | |
| 20 | 0000 2017 | | | | | | | | | | | | |
| 21 | 0000 2017 | | | | | | | | | | | | |
| 22 | 0000 | 0717 | CULG | | | | | | | | | | |
| 29 | 2047 | 2400 | CULG | | | | | | | | | | |
| 30 | 0000 2024 | | | | | | 0213.5 | 1 | | | | HIB | |

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

B = Single burst

G = Small group (< 10) of bursts

GG = Large group (> 10) of burst

C = Underlying continuum (particularly with Type I)

S = Storm in the sense of intermittent but

apparently connected activity
N = intermittent activity in this period

U = U-shaped burst of Type iii

RS = Reverse slope burst

DP = Drifting pairs

DC = Drifting Chains

H = Herringbone
W = Weak
P = Pulsations

CONT = Continuum UNCLF = Unclassified activity

DCIM = Fast drift

DECEMBER 1985

| 0 | bserv | ation | | Decime | tric Bar | nd | Metr | ic Band | | Dekame | tric B | and | | |
|-----|---------------|----------------------|----------------------|----------------------------|----------------------------|--------------|----------------------------|------------------|--------------|---------------|-------------|--------------|---------------------------|------------|
| Day | Start (UT) | End (UT) | Sta | Decime Start (UT) | End (UT) | Int (1-3) | Start (UT) | End ('UT') | Int (1-3) | Start (UT) | End (UT) | Int (1-3) | Spectral | Туре |
| | 0000 | 0721 | CULG | | | | | | | | | | | |
| 02 | 0000 | 2400 0721 | CULG | | | | | | | | | | | |
| 0 = | | 2400 0722 | | | | | | | | | | | | |
| | 022 | 2400 | CULG | | | | | | | | | | | |
| C | | 0249 2400 | | | | | | | | | | | | |
| 05 | | 0722 2400 | | | | | | | | | | | | |
| 06 | | 072 <i>3</i> 2400 | | | | | 0013.0 | | | | | | IIIB | , W |
| 07 | | 0724 2400 | | | | | | | | | | | | |
| 08 | | 0724 2400 | | | | | | | | | | | | |
| 09 | | 0722 | | | | | | | | | | | | |
| 10 | 2025 | 0725 2400 2400 | CULG | 0501.5 | | 1 | 0502.0 | | 1 | | | | IIIB | |
| 11 | | 0725 2400 | | | | | | | | | | | | |
| 12 | | 0726 2400 | | 0023.5 0031.0 2301.0 | | | 0033.0 0031.0 2253.0 | 2253,5 | 1 | | | | | , U |
| 13 | | 0726 2400 | | | | | | | | | | | | |
| 14 | | 0132 2400 | | | | | | | | | | | | |
| 15 | 0000 | 0727 | CULG | 0605.5 0607.5 | 0606.5 | 2 | 0607.5 | | 1 | | | | 111S | |
| | 2027 | 2400 | CULG | 2142.0 | | 1 | 2156.5 | | 1 | | | | 111G | |
| | | | CULG CULG | 2201.0 2204.5 2215.5 | 2201.5 2205.0 2217.5 | 1 | 2204.5 2216.0 | 2205.0 2217.0 | | | | | DC 1M 111G 111G | |
| 16 | 0000 | 0728 | CULG | 0225.0 0228.0 | 0226.0 | 1 | | | | | | | DC IM | |
| | | | CULG CULG CULG | 0258.0 0349.5 | 0300.0 0352.0 | | 0351.0 | | 1 | | | | DC IM DC IM I I I B | |
| | 2028 | 2400 | CULG | 0418.0 | 0419.0 | 1 | 2243.5 | | 2 | | | | IIIG | |
| 17 | 0000 2027 | | CULG | | | | | | | | | | | |
| 18 | 0000 2029 | | CULG | | | | | | | | | | | |
| 19 | 0000 | | CULG | | | | | | | | | | | |
| 20 | | 0729 2400 | | | | | | | | | | | | |

S O L A R R A D I O E M I S S I O N S P E C T R A L O B S E R Y A T I O N S

DECEMBER 1985

| | Observ | ation | | Decime | atric B | and | Metr | ic Ban | | Dekame | tric B | and | | |
|----|--------------|--------------|------|---------------|-------------|--------------|---------------|-------------|--------------|--------|-------------|--------------|----------|------|
| | Start | End | | Start (UT) | End (UT) | Int (1-3) | Start (UT) | End (UT) | Int (1-3) | Start | End (UT) | Int (1-3) | Spectral | Туре |
| 21 | 0000 2031 | 0730 2400 | | | | | | | | | | | | |
| 22 | 0000 2032 | 0731 2400 | | | | | | | | | | | | |
| 23 | 0000 2031 | 0732 2400 | | | | | | | | | | | | |
| 24 | 0000 2031 | 0732 2227 | | | | | | | | | | | | |
| 26 | 2303 | 2400 | CULG | | | | | | | | | | | |
| 27 | 0000 2033 | 0733 2400 | | | | | * | | | | | | | |
| 28 | | 0733 2400 | | | | | | | | | | | | |
| 29 | 0000 2035 | 0734 2400 | | | | | | | | | | | | |
| 30 | 0000 | 0520 | CULG | | | | | | | | | | | |

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

B = Single burst

G = Small group (< 10) of bursts GG = Large group (> 10) of burst

C = Underlying continuum (particularly with Type I)
S = Storm in the sense of intermittent but

apparently connected activity

N = Intermittent activity in this period

U = U-shaped burst of Type |||

RS = Reverse slope burst

DP = Drifting pairs
DC = Drifting Chains

H = Herringbone

W = Weak

P = Pulsations

CONT = Continuum

UNCLF = Unclassified activity
DCIM = Fast drift

105%

100%

95%

COSMIC RAY INDICES (Neutron Monitor)

105%

100%

95%

Late May-Jun 85 Bartels Rotation 2074 (May 1985-June 1985) COSMIC RAY INDICES (Neutron Monitor) = σ œ RIVER = ALERT DEEP М Ø

105%

100%

95%

105%

100%

95%

MAY

Late Jun-Jul 85 Bartels Rotation 2076 (June 1985-July 1985) COSMIC RAY INDICES (Neutron Monitor) = = œ ∞ DEEP RIVER ALERT 30 1 JUN JUL

105%

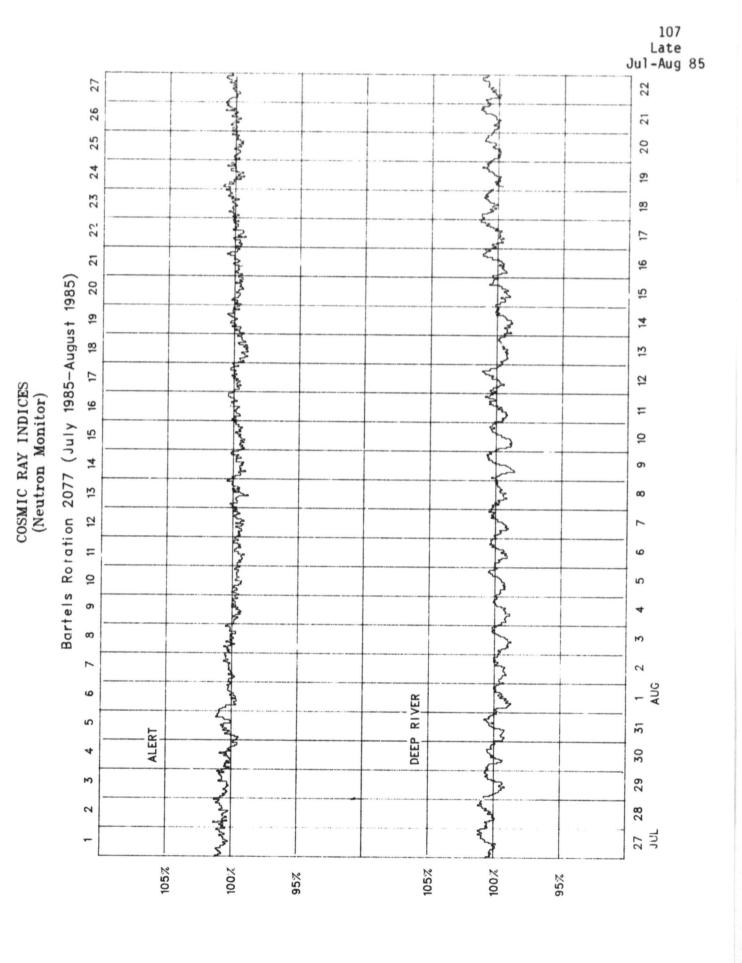
100%

95%

105%

100%

95%



Late Aug-Sep 85 Bartels Rotation 2076 (August 1985-September 1985) = œ COSMIC RAY INDICES (Neutron Monitor) F SEP ∞ RIVER あるないのとしのからないというというというないというという ALERT DEEP

100%

95%

105%

100%

95%

105%

AUG

(Neutron Monitor)

Late Oct-Nov 85 = ø Bartels Rotation 2080 (October 1985-November 1985) NOV COSMIC RAY INDICES (Neutron Monitor) ∞ RIVER ALERT DEEP M 0CT

100%

95%

105%

100%

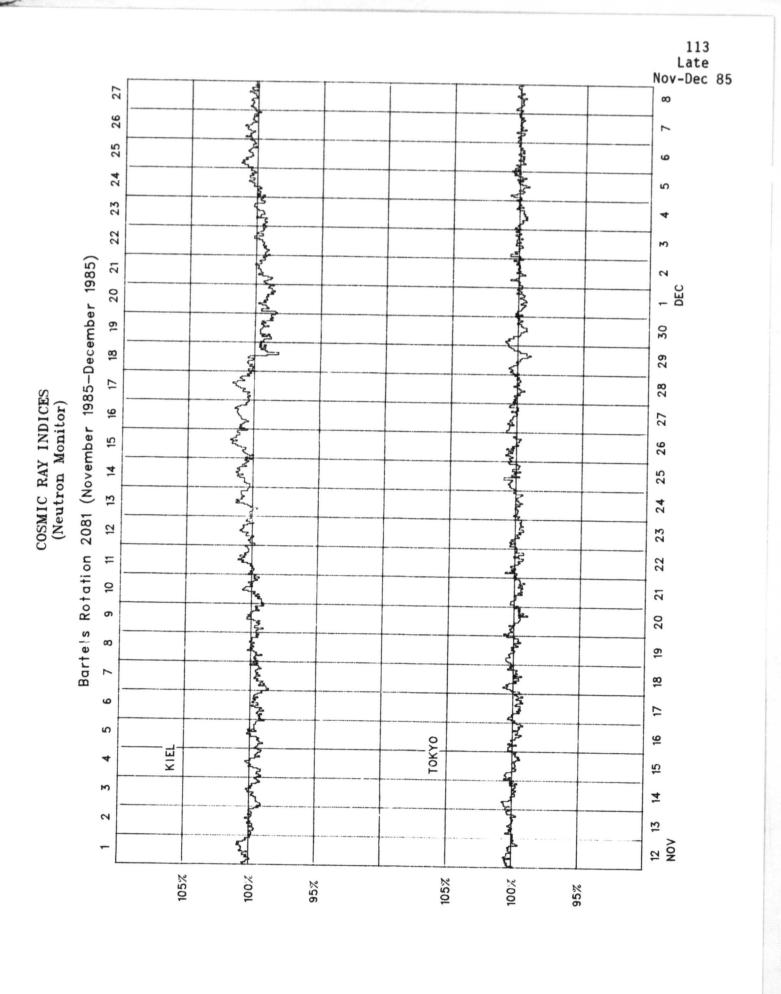
95%

105%

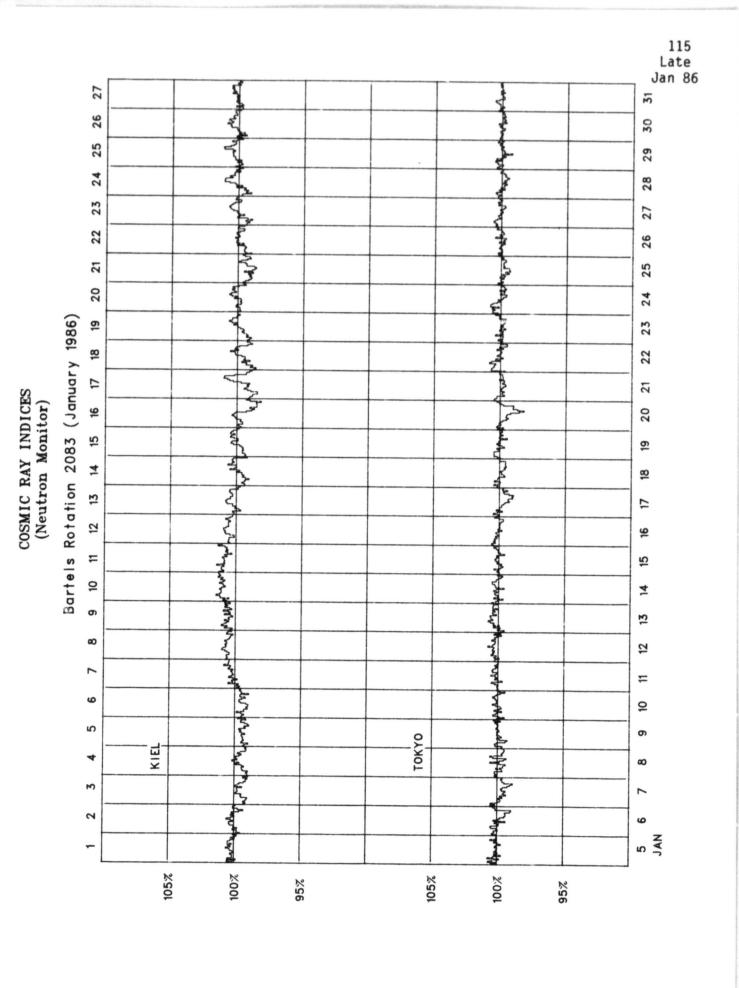
Late Nov-Dec 85 Ø (November 1985-December 1985) DEC (Neutron Monitor) Bartels Rotation Ξ ∞ RIVER ALERT DEEP NOV 105% 100% 105% 100% 95% 95%

COSMIC RAY INDICES

Late Dec-Jan 86 (December 1935-January 1986) COSMIC RAY INDICES (Neutron Monitor) Bartels Rotation 2082 $\overline{\omega}$ RIVER DEEP DEC 100% 85%



Late Dec-Jan 86 Bartels Rotation 2082 (December 1985-January 1986) COSMIC RAY INDICES (Neutron Monitor) ø TOKYO KIEL = 105% 100% 105% 100% 95% 95%



May 1985

| | THULE | ALERT | DEEP RIVER | | CL IMAX Average | | | |
|------|-------------|----------------------------|----------------------------|-------------|----------------------------|-------------|-------------|-----------|
| | Average | Average | Average | Average | Average | Average | Average | Average |
| | (cts/h)/100 | (cts/h)/100 | (cts/h)/300 | (cts/h)/100 | (cts/h)/100 | (cts/h)/100 | (cts/h)/256 | (cts/h)/1 |
| 1 | | | | | 3819.9 | | | |
| 2 | 4235 | 6940.2 | 6579.0 | 5932.4 | 3861.7 | 1106 | 3619.1 | |
| 3 | 4268 | 6984.4 | 6655.5 | 5942 1 | 3861.7 3886.7 3917.5 | 1117 | 3619.5 | |
| 4 | 4285 | 7020.9 | 6673.7 | 5979.3 | 3917.5 | 1137 | 3629.2 | |
| 5 | 4305 | 7053.8 | 6674.7 | 5987.1 | 3926.0 | 1153 | 3618.2 | |
| 6 | 4304 | 7079.6 | 6683.4 | 5985.4 | 3938.7 | 1174 | 3612.4 | |
| 7 | 4301 | 7100.8 | 6717.2 | 5998.5 | 3948.5 | 1194 | 3616.8 | |
| 8 | 4313 | 7100.8 7123.3 7142.4 | 6717.2 6730.1 6726.2 | 6008.6 | 3948.5 3947.2 | 1198 | 3628.7 | |
| 9 | 4338 | 7142 4 | 6726.2 | 6031.1 | 3954.2 | 1199 | 3632.1 | |
| 10 | 4321 | 7130.1 | 6710.5 | 6011.8 | 3962.3 | 1201 | | |
| 11 | 4330 | 7132.9 | 6742.1 | 6016.9 | 3983.9 | 1204 | 3652.5 | |
| 12 | 4343 | 7165.2 | 6748.1 | 6044.9 | 3990.5 | 1212 | 3651.3 | |
| 13 | 4365 | 7228.9 | 6748.1 6776.7 6780.8 | 6056.8 | 3990.5 4022.3 4011.8 | 1213 | 3647.1 | |
| 14 | 4348 | 7218.5 | 6780.8 | 6062.9 | 4011.8 | 1214 | 3640.5 | |
| 15 | 4349 | 7206.4 | 6777.6 | 6057.3 | 3997.2 | 1217 | | |
| 16 | 4359 | 7240.1 | 6777.7 | 6062.5 | 3998.2 | 1216 | 3659.7 | |
| 17 | 4336 | 7196.0 | 6763.7 | 6039.7 | 3971.2 | 1212 | 3643.2 | |
| 18 | 4330 | 7196.0 7252.1 7140.7 | 6771.4 | 6045.3 | 3971.2 3972.7(36) | 1209 | 3635.7 | |
| 19 | 4359 | 7140.7 | 6812.6 | 6084.8 | | 1216 | 3643.0 | |
| 20 | 4365 | 7123.1 | 6804.8 | 6119.2 | | 1218 | 3638.4 | |
| 21 | 4371 | 7116.2 | 6826.2 | | 4021.0 | | 3640.1 | |
| 22 | 4381 | 7144.1 | 6833.0 | 6129.6 | 4024.0 4018.9 | 1214 | 3639.1 | |
| 23 | 4380 | 7157.7 | 6844.3 | 6121.8 | 4018.9 | 1214 | 3644.5 | |
| 24 | 4368 | 7130.0 | 6833.0 6844.3 6837.5 | 6096.7 | 4009.0 | 1218 | 3630.0 | |
| 25 | 4362 | 7093.8 | | 6062.3 | 3963,9(38) | 1211 | 2619.0 | |
| 26 | 4372 | 7092.9 | 6815.1 | 6077.1 | 3984.8(34) | | 3636.4 | |
| 27 | 4393 | 7127.0 | 6832.0 | 6109.3 | 4015.2 4022.8 | 1223 | 3642.7 | |
| 28 | 4389 | 7103.4 | 6855.4 | 6102.2 | 4022.8 | 1220 | 3641.9 | |
| 29 | 4386 | | 6853.3 | 6101.7 | 4019.3 | 1219 | | |
| 30 | 4406 | 7136.3 | 6870.4 | 6126.9 | 4041.3 | 1221 | 3645.1 | |
| 31 | 4409 | 7146.8 | 6848.2 | 6123.8 | 4035.3 | 1220 | 3646.2 | |
| Mean | | 7116.2 | 6762.6 | 6048.5 | 3975.7 | 1197 | 3635.7 | |

C O S M I C R A Y I N D I C E S (Neutron Monitor)

June 1985

| Day | THULE Average (cts/h)/100 | ALERT Average (cts/h)/100 | DEEP RIVER Average (cts/h)/300 | KIEL Average (cts/h)/100 | CLIMAX Average (cts/h)/100 | PREDIGTSTUHL Average (cts/h)/100 | TOKYO Average (cts/h)/256 | HUANCAYO Average (cts/h)/100 |
|------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------|----------------------------------|--|---------------------------------|------------------------------------|
| 1 | 4410 | 7156.5 | 6858.4 6855.5 6863.2 | 6134.6 | 4052,2(38) 4045,0 | | 3651.5 | |
| 2 | 4404 | 7131.1 | 6855.5 | 6137.5 | 4045.0 | 1224 | 3648.5 | |
| 3 | | 7141.7 | 6863.2 | 6147.0 | 4041.8 | 1223 | 3645.2 | |
| 4 | 4409 | 7138.5 | 6866.8 | 6160,2 | 4037.5 | 1221 | 3655.5 | |
| 5 | 4410 | 7127.8 | 6867.1 | 6158.8 | 4039.3 | 1222 | 3665.4 | |
| 6 | 4394 | 7113.7 | 6844.7 | 6139.3 | 4020.6 | 1219 | 3663.2 | |
| 7 | 4378 | 7105.5 | 6815.5 | 6128.3 | 4007.1 | 1215 | 3649.6 | |
| 8 | 4374 | 7103.9 | 6819.7 | 6121.3 | 4017.2 | 1214 | 3649.2 | |
| 9 | 4370 | 7103.9 7095.8 7070.0 | 6819.7 6786.5 6786.8 | 6134.8 | 4017.2 4007.4 4028.6 | 1208 | 3638.7 | |
| 10 | 4372 | 7070.0 | 6786.8 | 6120.0 | 4028.6 | 1216 | 3649.8 | |
| 11 | 4377 | 7101.3 7124.3 (21 | 6811.4 | 6154.9 | 4021.9 | 1215 | 3649.0 | |
| 12 | 4393 | 7124.3 (21 | 6830.2 | 6146.4 | 4021.9 | 1217 | 3647.7 | |
| 13 | 4390 | 7150.3 (23 | 6850.4 | 6132.4 | 4037.3 | 1215 | 3645.1 | |
| 14 | 4409 | 7146.2 | 6863.0 | | 4045.7 | | 3650.7 | |
| 15 | 4404 | 7148.2 | 6852.4 | 6138.4 | 4033.8 | 1216 | 3655.8 | |
| 16 | 4417 | 7168.1 | 6875.3 | 6076.5 | 4052.5 | 1221 | 3660.5 | |
| 17 | 4426 | 7178.3 | 6868.0 6874.4 6894.2 | 6137.6 | 4049.0 | 1222 | 3655.5 | |
| 18 | 4429 | 7199.6 | 6874.4 | 6046.3 | 4045.5 4059.3 | 1220 | 3640.8 | |
| 19 | 4443 | 7214.8 | 6894.2 | 6:71.9 | 4059.3 | 1223 | 3633.8 | |
| 20 | 4434 | 7211.2 | 6891.1 | 6349.7 | 4059.6 | 1223 | 3645.6 | |
| 21 | 4406 | 7168.7 | 6862.7 6825.4 | 6235.8 | 4047.0 | 1215 | 3629.2 | |
| 22 | 4389 | 7156.2 | 6825.4 | 6385.1 | 4047.0 4029.3 | 1211 | 3627.9 | |
| 23 | 4409 | 7211.7 | 6831.3 | | 4046.9 | 1215 | 3632.4 | |
| 24 | 4415 | 7231.4 | 6850.0 | 6266,2 | 4054.5 | 1214 | 3627.0 | |
| 25 | 4392 | 7180.0 | 6823.9 | 6096.6 | 4062.7 | 1208 | 3622.4 | |
| 26 | 4391 | 7176.2 | 6831.1 | 6056.1 | 4069.0 | 1210 | 3638.1 | |
| 27 | 4408 | 7225.6 | 6838.9 | 6170.4 | 4064.1 | 1215 | 3636.1 | |
| 28 | 4409 | 7222.0 | 6858.7 | 6229.5 | 4068.8 | 1220 | 3639.2 | |
| 29 | 4420 | 7260.3 | 6838.9 6858.7 6855.8 | 6128.3 | 4064.1 4068.8 4062.3 | 1221 | 3636.5 | |
| 30 | 4423 | 7265.1 | 6863.0 | 6056.9 | 4066.3 | 1224 | 3638.8 | |
| Mean | | 7164.2 | 6847.2 | 6162.6 | 4043.3 | 1218 | 3644.3 | |

July 1985

| | | | | 0017 13 | 0,5 | | | |
|------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------|----------------------------------|--|---------------------------------|------------------------------------|
| Day | THULE Average (cts/h)/100 | ALERT Average (cts/h)/100 | DEEP RIVER Average (cts/h)/300 | KIEL Average (cts/h)/100 | CLIMAX Average (cts/h)/100 | PREDIGTSTUHL Average (cts/h)/100 | TOKYO Average (cts/h)/256 | HUANCAYO Average (cts/h)/100 |
| 1 | 4431 | 7276.0 | 6864.9 | 6164.3 | 4065.6 | 1224 | 3647.0 | |
| 2 | 4434 | 7253.5 | 6874.1 | 6147.6 | 4069.8 | 1227 | 3639.1 | |
| 3 | 4443 | 7252.9 | 6902.2 | 6154.4 | 4078.3 | 1229 | 3636.4 | |
| 4 | 4414 | 7229.3 | 6843.7 6791.4 | 61 16.3 | 4044.8 | 1222 | 3629.5 | |
| 5 | 4388 | 7191.4 | 6791.4 | 6094.6 | 4044.8 4026.8 | 1219 | 3623.0 | |
| 6 | 4378 | 7186.0 | 6781.3 | 6102.7 | 4022.5 | 1218 | 3621.8 | |
| 7 | 4371 | 7174.6 | 6781.5 6772.3 | 6093.8 | 4012-7 | 1212 | 3625.6 | |
| 8 | 4372 | 7119.3 | 6772.3 | 6096.2 | 3999.6 | 1210 | 3621.2 | |
| 9 | 4384 | 7141.4 (5) | 6807.7 | 6118.9 | 4022.7 | 1216 | 3635.6 | |
| 10 | 4392 | | 6819.7 | 6119.9 | 4024.7 | 1217 | 3631.6 | |
| 11 | 4372 | | 6852.7 | 6110.6 | 4035.2 | 1216 | 3636.1 | |
| 12 | 4305 | | 6735.6 | 6006.9 | 3991,4(36) | 1201 | 3625.9 | |
| 13 | 4296 | | 6690.5 | 5974.4 | 3940.1 | 1196 | 3594.5 | |
| 14 | 4326 | 7056.1 (19 | 6714.2 | 6057.0 | 3977.3 | | 3627.4 | |
| 15 | 4368 | 7124.5 | 6754.1 | 6087.6 | 4000.5 | 1214 | 3638.3 | |
| 16 | 4372 | 7148.4 | 6788.7 | 6097.1 | 4005.5 | | 3632.1 | |
| 17 | 4369 | 7125.3 | 6789.5 | 6091.3 | | 1214 | 3628.9 | |
| 18 | 4365 | 7130.5 7129.5 | 6785.5 6784.1 | 6108.9 | 4000.0 4016.8 | 1213 | 3624.2 | |
| 19 | 4382 | | 6784。1 | 6136.1 | 4016.8 | 1217 | 3619.4 | |
| 20 | 4372 | 7120.8 | 6793.2 | 6118.1 | 4023,5 | 1214 | 3615.9 | |
| 21 | 4379 | 7139.6 | 6800.7 | 6112.7 | 4031.0 | 1213 | 3619.7 | |
| 22 | 4391 | 7148.2 | 6825.0 | 6119.3 | 4022,8(28) | 1212 | 3627.8 | |
| 23 | 4390 | 7150.5 | 6827.3 | 6118.4 | 4026, 1(20) | 1217 | 3629.5 | |
| 24 | 4398 | 7187.7 | 6841.0 | 6114.8 | 4017,1(18) | | 3630.0 | |
| 25 | 4402 | 7226.9 | 6822.6 | 6134.0 | 4029.4 | 1221 | 3630.3 | |
| 26 | 4412 | 7232.6 | 6830.4 | 6162.7 | 3992.9 | 1223 | 3630.1 | |
| 27 | 4423 | 7226.3 | 6864.3 | 6164.9 | 3996.2 | 1226 | 3630.6 | |
| 28 | 4419 | 7225.8 | 6865.2 | | 3984.0(32) | | 3632.9 | |
| 29 | 4416 | 7216.6 | 6833.5 | 6176.8 | | 1225 | 3632.6 | |
| 30 | 4420 | 7187.8 | 6833.5 6841.4 6822.2 | 6155.9 | | 1220 | 3632.1 | |
| 31 | 4409 | 7203.5 | | | | 1217 | 3625.6 | |
| Mean | | 7178.0 | | | 4016.8 | | 3628,2 | |
| | | | | | | | | |

C O S M ! C R A Y I N D I C E S (Neutron Monitor)

August 1985

| | THULE | ALERT | DEEP RIVER Average | KIEL | CL IMAX | PREDIGTSTUHL | TOKYO | HUANCAYO |
|------|---------|----------|--------------------------------------|---------|------------|--------------|---------|----------|
| | Average | Average | Average | Average | Average | Average | Average | Average |
| | | | (cts/h)/300 | | | | | |
| 1 | 4700 | 7104 E | 6706 0 | 6004 0 | | 1212 | | |
| 2 | 4387 | 7192.3 | 6800.7 | 6106.6 | 4027,7(6) | 1212 | | |
| 3 | 4390 | 7186.3 | 6796.8 | 6115.9 | 3996.8 | 1209 | 3615.2 | |
| 4 | 4385 | 7156.4 | 6795.3 | 6126.9 | 4006.1 | 1208 | 3620.6 | |
| 5 | 4398 | 7149.5 | 6800.7 6796.8 6795.3 6812.8 | 6133.8 | 4012.0 | 1209 | 3619.0 | |
| 6 | 4398 | 7144.3 | 6817.0 | 6137.8 | 4010.0 | 1209 | 3618.5 | |
| 7 | 4393 | 7144.7 | 6817.0 6816.3 | 6122.5 | 4013.4 | 1211 | 3612.0 | |
| 8 | 4399 | 7161.3 | 6814.3 | 6112.2 | 4006,0(34) | 1208 | | |
| 9 | 4390 | 7149.3 | 6819.6 | 6108.4 | 4033,7(6) | 1210 | 3619.1 | |
| 10 | 4385 | 7139.8 | 6819.6 6807.7 | 6115.0 | 4011.3 | 1213 | 3616.5 | |
| 11 | 4400 | 7173.3 | 6823.6 6844.2 6795.6 6791.0 | 6128.7 | 4017.7 | 1214 | 3612.5 | |
| 12 | 4394 | 7166.5 | 6844.2 | 6123.0 | 4033.6 | 1220 | 3613.3 | |
| 13 | 4371 | 7126.4 | 6795.6 | 6089.9 | 4025.8 | 1215 | 3617.7 | |
| 14 | 4390 | 7170.4 | 6791.0 | 6116.3 | 4017.1 | 1201 | | |
| 15 | 4389 | 7151.9 | 6812.6 | 6131.4 | 4031.1 | 1201 | 3621.1 | |
| 16 | 4396 | 7166.5 | 6839.8 | 6156.8 | 4041.0 | 1205 | 3623,5 | |
| 17 | 4407 | 7158.8 | 6846.2 | 6174.6 | 4044.3 | 1225 | 3628, 1 | |
| 18 | 4418 | 7189.0 | 6846.2 6879.5 6855.6 (23) | 6193.3 | 4045.6 | 1221 1222 | 3633.8 | |
| 19 | 4414 | 7184.0 | 6855.6 (23) | 6188.6 | 4051.1 | 1222 | 3631.4 | |
| 20 | 4395 | 7163.4 | 6855.2 | 6148.2 | 4036.3 | 1219 | 3627.4 | |
| 21 | 4414 | 7189.0 | 6863.5 | 6145.9 | 4039.8 | 1221 | 3628.3 | |
| 22 | 4414 | 7193.2 | 6874.0 | 6165.5 | 4044.2 | 1215 | 3633.5 | |
| 23 | 4417 | 7181.8 | 6879.9 | 6167.9 | 4047.8 | 1217 | 3638.5 | |
| 24 | 4421 | 7177.3 | 6880.2 | 6173.7 | 4048.4 | 1203 | 3634.6 | |
| 25 | 4415 | 7171.7 | 6874.0 6879.9 6880.2 6859.4 | 6168.0 | 4049.3 | 1221 | 3635,5 | |
| 26 | 4394 | 7139.9 | 6819.8 6805.3 | 6147.1 | 4023.6 | 1222 | 3627.0 | |
| 27 | 4390 | 7131.9 | 6805.3 | 6116.9 | 4016.2 | 1217 | 3619.6 | |
| 28 | 4387 | 7146.0 | 6809.3 | 6113.1 | 4011.2 | 1218 | 3612.1 | |
| 29 | 4369 | 71 33. 1 | 6840.0 | 6101.3 | 4015.9 | 1218 | 3612.5 | |
| 30 | 4378 | 7148.8 | 6840.9 | 6100.1 | 4020.3 | 1217 | 3602.3 | |
| 31 | 4409 | 7180.4 | 6809.3 6840.0 6840.9 6832.7 | 6160,2 | 4002,7(34) | 1225 | 3603,2 | |
| Mean | | | 6829.9 | | | | | |

C O S M I C R A Y I N D I C E S (Neutron Monitor)

SEPTEMBER 1985

| | | | | JET I EMILEN | | | | |
|------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------|----------------------------------|--|---------------------------------|-----------------------------------|
| Day | THULE Average (cts/h)/100 | ALERT Average (cts/h)/100 | DEEP RIVER Average (cts/h)/300 | KIEL Average (cts/h)/100 | CLIMAX Average (cts/h)/100 | PREDIGTSTUHL Average (cts/h)/100 | TOKYO Average (cts/h)/256 | HUANCAYO Average (cts/h)/10 |
| 1 | 4378 | 7155.2 | 6822.9 | 6148.5 | | 1218 | 3603.2 | |
| 2 | 4398 | 7177.2 | 6841.9 6862.6 | 6164.5 | | 1219 | 3607.1 | |
| 3 | 4422 | 7216.1 | 6862.6 | 6187.4 | | 1214 | 3613.4 | |
| 4 | 4430 | | 6855.3 | | | 1220 | 3616.2 | |
| 5 | 4433 | 7228.0 | 6878.8 | 6192.9 | | 1221 | 3620.6 | |
| 6 | 4434 | 7244.8 | 6876.9 | 6213.0 | | 1229 | 3627.9 | |
| 7 | 4449 | 7258.4 | 6884.0 | 6205.1 | | 1231 | 3630.0 | |
| 8 | 4450 | 7274.9 | 6899.8 6902.7 | 6210.1 | | 1232 | 3633.9 | |
| 9 | 4447 | 7259.2 | 6902.7 | 6195.2 | | 1231 | 3633.6 | |
| 10 | 4452 | 7271.3 | 6911.9 | 6182.5 | | 1236 | 3628.3 | |
| 1 1 | 4464 | 7306.5 | 6959.3 | 6197.4 | | 1241 | 3633.1 | |
| 12 | 4476 | 7320.6 | 6982.1 | 6213.0 | | 1244 | 3637.9 | |
| 13 | 4486 | 7309.4 | 6995.8 | 6235.6 | | 1244 | 3646.7 | |
| 14 | 4475 | 7299.1 | 6971.1 | 6227.9 | | 1245 | 3644.2 | |
| 15 | 4472 | 7297.8 | 6939.3 | 6237.7 | | 1242 | 3629.7 | |
| 16 | 4454 | 7273.9 | 6925.2 | 6222.8 | | 1240 | 3624.4 | |
| 17 | 4448 | 7220.5 | 6912.7 | 6194.5 | | 1233 | 3627.5 | |
| 18 | 4434 | 7200.1 | 6890 6 | 6173.6 | | 1230 | 3617.9 | |
| 19 | 4426 | 7207.9 | 6854.9 | 6172.3 | | 1229 | 3613.2 | |
| 20 | 4411 | 7218.5 | 6852.1 | 6172.4 | | 1229 | 3615.5 | |
| 21 | 4438 | 7238.7 | 6874.9 | 6179.7 | | 1232 | 3620.5 | |
| 22 | 4437 | 7245.5 | 6888.8 | 6184.2 | | 1230 | 3621.2 | |
| 23 | 4436 | 7243.5 | 6886.8 | 6180.4 | | 1234 | 3618.1 | |
| 24 | 4424 | 7236.5 | 6885.3 | 6178.6 | | 1233 | 3608.0 | |
| 25 | 4426 | 7238.8 | 6894.5 | 6172.9 | | 1233 | 3616.3 | |
| 26 | 4433 | 7247.9 | 6894.3 | 6167.0 | | 1237 | 3618.8 | |
| 27 | 4450 | 7289.6 | 6894.0 | 6187.3 | | 1238 | 3628.7 | |
| 28 | 4448 | 7272.6 | 6908.3 | 6199.8 | | 1239 | 3622.6 | |
| 29 | 4462 | | 6901.2 | 6196.7 | | 1240 | 3617.1 | |
| 30 | 4465 | 7280.0 | | | | 1239 | 3625.7 | |
| Mean | | 7252.2 | | 6192.4 | | 1232.8 | | |

October 1985

| | | | | October | | | | |
|------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------|----------------------------------|---------------------|---------------------------------|------------------------------------|
| Day | THULE Average (cts/h)/100 | ALERT Avarage (cts/h)/100 | DEEP RIVER Average (cts/h)/300 | KIEL Average (cts/h)/100 | CLIMAX Average (cts/h)/100 | Average (cts/h)/100 | TOKYO Average (cts/h)/256 | HUANCAYO Average (cts/h)/100 |
| 1 | 4475 | 7300.0 | 6900.9 | 6192.6 | | 1241 | 3631.7 | |
| 2 | 4486 | 7343.5 | 6951.6 | 6223.8 | | 1243 | 3643.2 | |
| 3 | 4423 | 7230.3 | 6890.3 | 6162.5 | | 1236 | 3632.0 | |
| 4 | 4436 | 7255.6 | 6890.7 | 6184.8 | | 1240 | 3628.7 | |
| 5 | 4419 | 7217.5 | 6864.3 | 6165.4 | | 1241 | 3632.1 | |
| 6 | 4420 | 7210.8 | 6869.5 | 6149.8 | | 1239 | 3624.4 | |
| 7 | 4439 | 7232.9 | 6882.3 | 6162.2 | | 1239 | 3634.7 | |
| 8 | 4463 | 7278,7 | 6884.4 | 6219.3 | | 1237 | 3642.2 | |
| 9 | 4476 | 73 .9 | 6889.2 | 6234.4 | | 1234 | 3640.3 | |
| 10 | 4481 | 7308.7 | 6911.0 | 6213.3 | | 1238 | 3640.4 | |
| 11 | 4479 | 7308.6 | 6924.6 | 6190.7 | | 1236 | 3631.2 | |
| 12 | 4447 | 7251.1 | 6887.8 | 6170.2 | | 1230 | 3632.9 | |
| 13 | 4440 | 7239.0 | 6862.5 | 6162.1 | | 1232 | 3633.4 | |
| 14 | 4414 | 7190.8 | 6852.8 | 6136.5 | | 1229 | 3635.4 | |
| 15 | 4421 | 7210.7 | 6870.3 | 6156.1 | | 1228 | 3641.2 | |
| 16 | 4437 | 7251.2 | 6910.5 | 6182.0 | | 1232 | 3632.6 | |
| 17 | 4441 | 7230.9 | 6885.6 | 6188.4 | | 1229 | 3630.1 | |
| 18 | 4436 | 7224.5 | 6869.4 | 6178.1 | | 1229 | 3633.9 | |
| 19 | 4442 | 7241.5 | 6871.4 | 6169.6 | | 1228 | 3629.2 | |
| 20 | 4445 | 7249.5 | 6902.7 | 6169.3 | | 1229 | 3625.5 | |
| 21 | 4437 | 7231.9 | 6882.5 | 6156.4 | | 1226 | 3628.0 | |
| 22 | 4439 | 7228.4 | 6879.8 | 6153.4 | | 1230 | 3636.8 | |
| 23 | 4444 | 7257.5 | 6883.5 | 6179.4 | | 1233 | 3644.0 | |
| 24 | 4451 | 7261.0 | 6910.5 | 6197.6 | | 1236 | 3645.9 | |
| 25 | 4462 | 7296.1 | 6935.9 | 6212.8 | | 1238 | 3649.6 | |
| 26 | 4445 | 7268.2 | 6937.6 | 6228.2 | | 1241 | 3650.0 | |
| 27 | 4443 | 7243.3 | 6941.8 | 6242.3 | | 1242 | 3651.0 | |
| 28 | 4445 | 7229.5 | 6947.3 | 6228.8 | | 1239 | 3652.9 | |
| 29 | 4447 | 7246.4 | 6942.5 | 6230.2 | | 1244 | 3646.3 | |
| 30 | 4446 | 7257.3 | 6927.2 | 6243.3 | | 1225 | 3637.8 | |
| 31 | 4442 | 7249.9 | 6932.4 | 6254.9 | | 1238 | 3635.6 | |
| Mean | | 7253.3 | 6900.1 | 6191.5 | | 1235 | 3637.2 | |
| | | | | | | | | |

NOVEMBER 1985

| Day | (cts/h)/100 | Average | DEEP RIVER Average (cts/h)/300 | Average | Average | PREDIGTSTUHL Average (cts/h)/100 | Average | HUANCAYO Average (cts/h)/100 |
|------|-------------|---------|--------------------------------------|---------|---------|--|---------|------------------------------------|
| 1 | 4438 | 7261.1 | 6940.5 | 6266.4 | | 1235 | 3640.7 | |
| 2 | 4456 | 7269.3 | 6938.0 | 6285.4 | | 1232 | 3663.2 | |
| 3 | 4463 | 7285.0 | | 6271.7 | | 1237 | 3655.5 | |
| 4 | 4482 | 7294.8 | 6947.7 | 6275.4 | | 1240 | 3656.4 | |
| 5 | 4489 | 7325.3 | 6956.1 | 6309.9 | | 1241 | 3655,6 | |
| 6 | 4484 | 7300.2 | 6966.2 | 6295.4 | | 1241 | 3650.7 | |
| 7 | 4493 | 7320.5 | 6966.3 | 6277.4 | | 1241 | 3653.8 | |
| 8 | 4498 | 7331.3 | 7001.0 | 6272.8 | | 1241 | 3662.4 | |
| 9 | 4478 | 7315.7 | 6960.3 | 6256.9 | | 1233 | 3651.7 | |
| 10 | 4468 | 7297.8 | 6923,2 | 62685,2 | | 1234 | 3653.7 | |
| 11 | 4491 | 7305, 1 | 6950.3 | 6286.9 | | 1227 | 3665.5 | |
| 12 | 4498 | 7315.0 | 6965.9 | 6270.0 | | 1226 | 3659.5 | |
| 13 | 4488 | 7315.3 | 6935.4 | 6237.4 | | 1217 | 3656.0 | |
| 14 | 4476 | 7290.3 | 6919.5 | 6222.3 | | 1211 | 3656.5 | |
| 15 | 4475 | 7293.2 | 6923.8 | 6218.2 | | 1213 | 3651.2 | |
| 16 | 4485 | 7306.8 | 6935,2 | 6219.8 | | 1217 | 3646.5 | |
| 17 | 4480 | 7293.9 | 6920.2 | 6210.4 | | 1216 | 3643.4 | |
| 18 | 4463 | 7270.7 | 6898.0 | 6205.0 | | 1218 | 3653.0 | |
| 19 | 4484 | 7301.2 | 6894.1 | 6230.6 | | 1222 | 3656.9 | |
| 20 | 4477 | 7293.5 | 6914.8 | 6226.7 | | 1219 | 3648.8 | |
| 21 | 4472 | 7277.3 | 6945.0 | 6233.0 | | 1217 | 3644.2 | |
| 22 | 4492 | 7319, 1 | 6963.7 | 6268.4 | | 1210 | 3648.6 | |
| 23 | 4491 | | 6955.0 | 6267.0 | | 1223 | 3646.6 | |
| 24 | 4492 | 7340.3 | 6985.9 | 6278.6 | | 1222 | 3647.9 | |
| 25 | 4479 | 7321.4 | 6987.2 | 6291.1 | | 1221 | 3662.2 | |
| 26 | 4467 | 7276.8 | 6982.5 | 6308.6 | | 1221 | 3661.5 | |
| 27 | 4470 | 7294.1 | 6947.1 | 6304.7 | | 1221 | 3666.3 | |
| 28 | 4489 | 7313.1 | 6973.7 | 6295.3 | | 1220 | 3652.6 | |
| 29 | 4464 | 7261.4 | 6936.6 | 6231.8 | | 1213 | 3654.8 | |
| 30 | 4439 | 7214.7 | 6888.5 | 6196.2 | | 1202 | 3655.1 | |
| Mean | 4477 | 7297.5 | 6945.0 | 6259.4 | | 1224 | 3654.0 | |

C O S M I C R A Y I N D I C E S (Neutron Monitor)

DECEMBER 1985

| | THULE | ALERT | DEEP RIVER | KIEL | CL IMAX | PRED IGT STUHL | TOKYO | HUANCAYO |
|----------|--------------|-----------------|--------------|------------------|-------------|----------------|------------------|-------------|
| | Average | Average | Average | Average | Average | Average | Average | Average |
| Day | (cts/h)/100 | (cts/h)/100 | (cts/h)/300 | (cts/h)/100 | (cts/h)/100 | (cts/h)/100 | (cts/h)/256 | (cts/h)/100 |
| | | | | | | | | |
| 1 | 4457 | 7241 | 6397 | 6186.9 | | 1200 | 3645.5 | |
| 2 | 4464 | 7263 | 6967 | 6213.8 | | 1213 | 3652.6 | |
| 3 | 4467 | 7258 | 6961 | 6215.3 | | 1226 | 3656.9 | |
| 4 | 4468 | 7268 | 6957 | 6225.1 | | 1234 | 3647.7 | |
| 5 | 4470 | 7297 | 6956 | 6256.2 | | 1240 | 3652.7 | |
| 6 | 4485 | 7324 | 6986 | 6282.7 | | 1248 | 3652.5 | |
| 7 | 4488 | 7331 | 6975 | 6273.2 | | 1245 | 3652.4 | |
| 8 | 4494 | 7339 | 6975 | 6265.1 | | 1244 | 3652.9 | |
| 9 | 4506 | 7347 | 6993 | 6283.4 | | 1247 | 3667.9 | |
| 10 | 4486 | 7317 | 6954 | 6260.6 | | 1239 | 3663.3 | |
| | 4476 | 7206 | 6004 | 6227 0 | | 1220 | 7656.0 | |
| 11 12 | 4476 | 7296 | 6904 | 6227.9 | | 1229 | 3656.8 | |
| 13 | 4485 4448 | 73 15 72 4 3 | 6956 6907 | 6226.2 6199.3 | | 1224 | 3664.0 | |
| 14 | 4446 | 7245 | 6932 | | | 1219 | 3542.4 | |
| 15 | 4452 | 7259 | 6941 | 6193.6 | | 1222 | 3641.1 | |
| 15 | 4432 | 1239 | 0941 | 6196.1 | | 1220 | 3649.8 | |
| 16 | 4465 | 7267 | 6951 | 6203.9 | | 1215 | 3649.8 | |
| 17 | 4466 | 7274 | 6951 | 6206.0 | | 1221 | 3650.0 | |
| 18 | 4426 | 7204 | 6901 | 6180.1 | | 1212 | 3629.2 | |
| 19 | 4399 | 7176 | 6854 | 6153.2 | | 1194 | 3616.4 | |
| 20 | 4410 | 7172 | 6866 | 6165.1 | | 1196 | 3625.5 | |
| 21 | 4431 | 7207 | 6905 | 6164.0 | | 1180 | 3630.4 | |
| 22 | 4449 | 7234 | 6920 | 6192.3 | | 1186 | 3626.8 | |
| 23 | 4454 | 7235 | 6924 | 6199.4 | | 1201 | 3631.3 | |
| 24 | 4454 | 7240 | 6917 | 6228.9 | | 1209 | 3639.5 | |
| 25 | 4467 | 7253 | 6953 | 6238.3 | | 1209 | 3642.5 | |
| 26 | 4460 | 7275 | 6077 | 6250 7 | | 1211 | 7657 1 | |
| 26 27 | 4468 4474 | 7275 7293 | 6973 6967 | 6259.3 | | 1211 1209 | 3653.1 | |
| 28 | 4474 | 7295 7215 | 6917 | 6260.9 6227.4 | | 1209 | 3550.0 | |
| 29 | 4452 | 7241 | 6932 | 6237.0 | | 1193 | 3649.1 3644.1 | |
| 30 | 4452 | 7188 | 6902 | 6189.7 | | 1178 | | |
| 30 | 4417 | /100 | 0902 | 0109.7 | | 11/8 | 3633,3 | |
| 31 | 4437 | 7217 | 6896 | 6209.6 | | 1179 | 3637.0 | |
| Mean | 4458 | 7259 | 6935 | 6220.0 | | 1214 | 3645.4 | |

C A L C I U M P L A G E R E G I O N S (ORDURED BY CENTRAL MERIDIAN PASSAGE DATE)

| Calcium Plage Region | Sta | Obs Mo | erva Day | ation Time (UT) | Lat | CMD | CM Mo | IP Day | Intensity | Corrected Area (10-6 Hemi) | NOAA/USAF #1 | Sunspot #2 | Groups #3 |
|--|--|--|--|--|--|--|--|---|---|--|--|---------------|--------------|
| 19042 19042 19042 19042 | BIGB BIGB BIGB BIGB | 08 08 08 09 | 29 30 31 | 2059 1445 1500 1505 | N04 N04 N04 N06 | E67 E54 E39 E26 | 09 09 09 | 3.9 3.6 3.5 3.6 | 1.0 1.0 1.5 1.0 | 0200 0200 0100 0100 | 4304C 4304C 4304C 4304C | | |
| 19050 19050 19050 19050 19050 19050 19050 19050 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 (09 (09 (09 (| 01 02 03 04 05 06 | 1505 1515 1843 1701 1855 2142 2205 2302 | N10 N10 N10 N10 N10 N10 N10 | E39 E26 E10 W04 W19 W33 W46 W60 | 09 09 09 09 09 09 | 4.5 4.6 4.5 4.4 4.4 4.5 4.4 | 2.5 2.5 3.0 3.0 3.0 3.0 3.5 | 0200 0900 1000 1500 1800 1800 1950 1600 | 4304 4304 4304 4304 4304 4304 4304 4304 | | |
| 19043 19043 19043 19043 19043 19043 19043 19043 19043 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 (09 (09 (09 (09 (| 31 01 02 03 04 05 06 | 1445 1500 1505 1515 1843 1701 1855 2142 2205 2302 | N12 N15 N14 N14 N14 N14 N14 | E80 E65 E55 E41 E26 E14 W03 W15 W27 W39 | 09 09 09 09 09 09 09 | 5.6 5.5 5.8 5.7 5.7 5.8 5.6 5.8 5.9 | 2.5 2.5 2.5 3.0 2.5 2.5 2.0 2.0 2.0 | 0500 0500 1000 1000 1000 0900 0600 0700 0650 | 4301 4301 4301 4301 4301 4301 4301 4301 | | |
| 19044 19044 19044 19044 19044 19044 19044 19044 19044 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 (09 (09 (| 01 02 03 04 05 06 | | S08 S09 S09 S09 S08 S09 | E 65 E 54 E 39 E 26 E 10 W 04 W 17 W 31 | 09 09 09 09 09 09 | 6.1 6.5 6.7 6.7 6.5 6.6 6.6 | 3.0 3.0 3.0 2.5 2.5 2.5 2.5 2.5 | 0600 1200 1500 1700 1000 0900 0900 | 4303 4303 4303 4303 4303 4303 4303 4303 | | |
| 19047 19047 19047 19047 19047 19047 19047 19047 19047 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 (0 09 (0 09 (0 09 (0 09 (1 09 1 | 03 04 05 06 07 08 12 | 1855 2142 2205 2302 1751 1520 | \$11 \$10 \$10 \$10 \$09 \$10 | E73 E61 E45 E29 E16 E02 W12 W63 W78 | 09 09 09 09 09 09 09 | 8.1 8.4 8.1 8.0 8.1 8.0 8.0 7.8 | 2.5 3.0 3.0 2.5 2.5 2.5 3.5 3.5 3.0 | 1000 1700 1500 1200 1200 1100 1300 1300 1450 0850 | 4305 4305 4305 4305 4305 4305 4305 4305 | | |
| 19053 19053 19053 19053 | BIGB BIGB BIGB BIGB | 09 0 09 1 09 1 | 12 | 2302 1751 1520 1653 | N06 N08 N08 N08 | W04 W54 W69 | 09 | 8.7 | 2.5 2.5 2.0 1.0 | 0150 0450 0450 0300 | 4311 4311 4311 4311 | | |
| 19049 19049 19049 19049 19049 19049 19049 19049 19049 19049 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 0 09 0 09 0 09 0 09 0 09 1 09 1 | 04 05 06 07 08 12 | 1843 1701 1855 2142 2205 2302 1751 1520 1653 1500 | \$15 \$14 \$14 \$13 \$13 \$12 \$12 \$13 \$13 \$13 | E59 E45 E31 E17 E03 W46 W60 W62 | 09 09 09 09 09 | 9.8 9.2 9.2 9.2 9.2 9.3 9.1 | 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 1.5 | 0800 1500 1500 1700 1700 1800 1650 1300 1300 | 4312A 4312A 4312A 4312A 4312A 4312A 4312A 4312A 4312A 4312A | | |
| 19054 | BIGB | 09 0 | 8 | 2302 | N07 | E07 | 09 | 9.5 | 1.5 | 0075 | | | |
| 19048 19048 19048 19048 19048 19048 19048 | BIGB BIGB BIGB BIGB BIGB BIGB | 09 0 09 0 09 0 09 0 09 0 09 0 | 13 14 15 16 17 | 1515 1843 1701 1855 2142 2205 2302 | S04 S05 S05 S03 S03 S02 S03 | E73 E65 E47 E37 E25 | 09 09 09 09 | 8.4 9.2 9.6 9.3 9.7 9.8 9.9 | 1.5 2.5 2.0 2.0 2.0 2.0 2.5 | 0700 1300 1200 1000 1000 1000 | 4306 4306 4306 4306 4306 4306 4306 | | |

C A L C I U M P L A G E R E G I O N S (ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

| Calcium Plage Region | Sta | Observ Mo Day | ration Time (UT) | Lat CM | CMP Mo Day | Intensity | Corrected Area (10-6 Hemi) | NOAA/USAF #1 | Sunspot #2 | Groups #3 |
|--|--|---|--|--|---|--|--|--|--|--------------|
| 19048 19048 19048 19048 | BIGB | 09 12 | 1520 1653 | S02 W3 S01 W4 S02 W5 S03 W7 | 09 10.0 09 10.4 09 10.1 | 1.5 1.5 1.5 | 0850 0850 0700 0750 | 4306 4306 4306 | | |
| 19051 19051 19051 19051 19051 19051 19051 19051 19051 19051 | BIGB BIGB BIGB BIGB BIGB BIGB | 09 05 09 06 09 07 09 08 09 12 09 13 09 14 09 15 | 2142 2205 2302 1751 1520 1653 | S15 E7/ S13 E5 S13 E4 S13 E3 S13 E1/ S12 W3/ S12 W4/ S12 W6/ S06 W7/ | 0 09 10.0 0 09 10.2 0 09 10.4 0 09 10.4 0 09 10.5 0 09 10.5 1 09 10.5 0 09 10.5 0 09 10.5 | 3.0 3.0 3.0 3.0 2.5 3.0 2.5 1.5 | 1200 2700 2500 2600 2400 2400 2500 2350 2400 0400 | 4307 4307 4307 4307 4307 4307 4307 4307 | | |
| 19052 19052 19052 19052 19052 19052 19052 19052 19052 | BIGB BIGB BIGB BIGB BIGB | 09 05 09 06 09 07 09 08 09 12 09 13 | 2142 2205 2302 1751 1520 1653 | N17 E7 N17 E7 N18 E5 N19 E4 N19 E2 N19 W2 N18 W3 N19 W5 N20 W6 | 9 09 10.7 10 09 11.1 13 09 11.3 14 09 11.0 15 09 11.0 16 09 11.0 17 09 10.7 18 09 10.8 | 2.0 2.5 2.5 2.5 2.0 1.0 1.5 1.5 | 0400 0600 0600 0850 0800 0600 0600 0350 0300 | 4308 4308 4308 4308 4308 4308 4308 4308 | | |
| 19055 19055 19055 19055 19055 19055 19055 19055 | BIGB BIGB BIGB BIGB BIGB | 09 06 09 07 09 08 09 12 09 13 09 14 09 15 09 16 | 2205 2302 | \$24 E56 \$23 E4 \$23 E25 \$23 W25 \$23 W35 \$22 W45 \$21 W55 \$20 W75 | 09 11.2 09 11.2 09 11.2 09 11.1 2 09 11.1 09 11.1 09 11.1 | 3.0 2.5 3.5 3.0 3.5 2.5 2.5 | 0250 0525 0500 0525 0500 0500 0500 | 4310 4310 4310 4310 4310 4310 4310 4310 | | |
| 19071 19071 | | 09 12 09 13 | 1751 1520 | S02 W06 S03 W18 | 09 12.3 | | 0175 0100 | | | |
| 19056 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 06 09 07 09 08 09 12 09 13 09 14 09 15 | 2205 2302 1751 1520 1653 1500 1923 | NO6 E78 NO7 E75 NO7 E66 NO7 E46 NO6 WO9 NO7 W11 NO7 W30 NO8 W4. NO9 W58 NO9 W73 | 09 11.6 09 12.4 09 12.5 09 12.4 09 12.4 09 12.4 09 12.4 09 12.4 09 12.4 09 12.4 | 2.0 3.0 3.0 3.0 2.5 2.5 2.5 2.5 2.5 | 0700 1700 2000 1850 1900 1900 1800 1750 1700 | 4313 4313 4313 4313 4313 4313 4313 4313 | 4314 4314 4314 4314 4314 4314 4314 4314 | |
| 19057 19057 19057 19057 19057 19057 19057 19057 19057 19057 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 05 09 06 09 07 09 08 09 12 09 13 09 14 09 15 09 16 09 17 09 18 | 1855 2142 2205 2302 1751 1520 1653 1500 1923 2312 1645 | \$05 E86 \$05 E77 \$05 E66 \$05 E49 \$05 W06 \$05 W26 \$05 W26 \$04 W46 \$02 W56 \$04 W66 \$07 W73 | 09 12.2 09 12.5 09 12.6 09 12.4 09 12.4 09 12.7 09 12.7 09 12.6 09 12.9 | 1.0 2.5 2.5 2.5 2.0 2.0 1.5 2.0 2.0 2.1 | 0500 1250 2000 1900 1300 1400 1400 1100 1300 0500 | 4315 4315 4315 4315 4315 4315 4315 4315 | | |
| 19058 19058 19058 19058 19058 19058 19058 19058 19058 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 07 09 08 09 12 09 13 09 14 09 15 09 16 09 17 09 18 | 2205 2302 1751 1520 1653 1500 1923 2312 1645 | \$20 E70 \$20 E58 \$18 E06 \$17 W05 \$16 W21 \$15 W33 \$14 W48 \$15 W65 \$16 W72 | 09 13.4 09 13.2 09 13.2 09 13.1 09 13.1 09 13.2 09 13.0 | 2.0 1.0 1.5 1.5 1.5 1.5 1.5 | 0825 0850 0700 0750 0700 0575 0575 0600 | | | |
| 19061 | BIGB | 09 13 | 1520 | N15 W06 | 09 13.2 | 1.0 | 0100 | | | |

C A L C I U M P L A G E R E G I O N S (ORDERED BY CENTRAL MERIDIAN PASSAGE DAIE)

| Calcium Plage Region | Sta | Observ Mo Day | ation Time (UT) | Lat CMD | CMP Mo Day | Intensity | Corrected Area (10-6 Hemi) | NOAA/USAF #1 | Sunspot Groups #2 #3 |
|--|--|---|--|--|--|---|--|--|--|
| 19061 19061 19061 19061 | BIGB BIGB BIGB | 09 14 09 15 09 16 09 17 | 1653 1500 1923 | N15 W19 N16 W32 N16 W46 N16 W64 N15 W78 | 09 13.3 09 13.2 09 13.3 09 13.1 09 12.8 | 1.0 1.0 2.5 3.0 3.5 | 0125 0125 0150 0350 0700 | | |
| 19069 19069 | | 09 15 09 16 | | S03 W27 S03 W42 | 09 13.6 09 13.7 | 2.0 | 0375 0450 | 4315D 4315D | |
| 19070 | BIGB | 09 15 | 1500 | N13 W22 | 09 14.0 | | 0125 | | |
| 19063 19063 19063 19063 19063 | BIGB BIGB BIGB BIGB | 09 16 09 17 | 1653 1500 | S03 E15 S03 E01 S02 W12 S03 W27 S04 W40 S05 W51 | 09 14.7 09 14.8 09 14.7 09 14.8 09 15.0 09 14.9 | 1.5 1.0 1.0 1.0 3.0 3.0 | 0125 0100 0100 0100 0275 0600 | 4318 4318 4318 4318 4318 4318 | 4320 4320 4320 4320 4320 4320 4320 |
| 19062 | BIGB | 09 13 | 1520 | NO8 E19 | 09 15.1 | 1.5 | 0175 | | |
| 19059 19059 19059 19059 19059 19059 19059 19059 19059 19059 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 16 | 2302 1751 1520 1653 1500 1923 2312 1645 | N16 E80 N17 E75 N18 E30 N20 E16 N20 E06 N22 W06 N20 W22 N21 W36 N19 W48 N20 W80 | 09 14.0 09 14.6 09 15.0 09 14.9 09 15.2 09 15.2 09 15.1 09 15.2 09 15.0 09 15.8 | 1.0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 0400 1300 1300 1400 1400 1400 1300 1400 14 | | |
| 19064 19064 19064 19064 19064 19064 | BIGB BIGB BIGB BIGB | 09 14 09 15 09 16 09 17 | 1520 1653 1500 1923 | S21 E35 S19 E23 S17 E09 S18 W04 S19 W19 S17 W33 S19 W40 | 09 15.4 09 15.4 09 15.4 09 15.3 09 15.3 09 15.4 09 15.6 | 1.5 2.0 2.0 2.0 2.0 2.0 | 0600 0800 1100 1000 0800 0850 0850 | | |
| 19060 19060 19060 19060 | | | 1520 | N12 E40 N13 E27 N13 E13 N13 W02 | 09 15.7 09 15.7 | | 0200 0250 0200 0250 | 4320A 4320A 4320A 4320A | |
| 19065 19065 | BIGB BIGB BIGB BIGB BIGB BIGB | 09 14 09 15 | | S13 E27 | | 3.0 3.5 3.5 3.5 3.5 3.5 3.5 3.5 | 0225 0800 0800 1000 0900 1200 1300 1200 1000 | 4317 4317 4317 4317 4317 4317 4317 4317 | |
| 19076 19076 19076 19076 | BIGB BIGB | 09 21 09 22 09 23 09 24 | 2203 1910 1630 1715 | N14 W47 N15 W58 N15 W71 N13 W85 | 09 18.4 09 18.4 09 18.3 09 18.3 | 2.0 2.0 2.0 2.0 | 0525 0650 0650 0600 | 4322 4322 4322 4322 | |
| 19066 19066 | | 09 13 09 14 | 1520 1653 | NO3 E69 NO4 E56 | 09 18.8 09 18.9 | 1.5 1.5 | 0200 0200 | | |
| 19068 19068 19068 19068 19068 19068 19068 19068 | BIGB BIGB BIGB BIGB BIGB BIGB | 09 14 09 15 09 16 09 17 09 18 09 21 09 22 09 23 09 24 | 1653 1500 1923 2312 1645 2203 1910 1630 1715 | \$14 E70 \$14 E57 \$16 E52 \$15 E37 \$14 E28 \$14 W12 \$14 W25 \$14 W36 \$14 W48 | 09 20.0 09 19.9 09 20.7 09 20.8 09 20.8 09 21.0 09 20.9 09 21.0 | 3.0 2.5 2.5 2.0 1.5 1.5 1.0 | 1300 0750 0800 1300 1350 1300 1000 0900 | 4321 4321 4321 4321 4321 4321 4321 4321 | |

C A L C I U M P L A G E R E G I O N S (ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

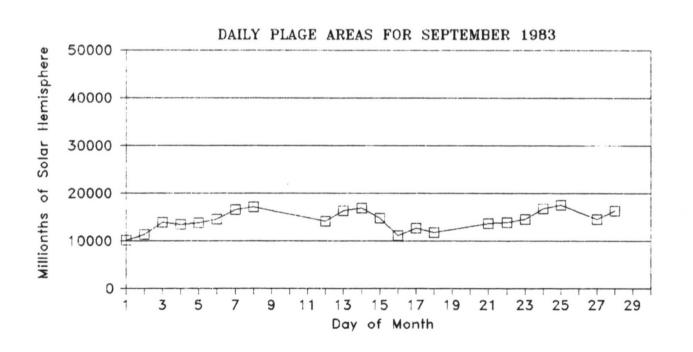
| 1906 | Calcium Plage Region | Obse Sta Mo D | ervation Time Day (UT) | Lat CMD | CMP Mo Day | Intensity | Corrected Area (10-6 Hemi) | NOAA/USAF Sunspot Groups #1 #2 #3 |
|--|---|--|---|--|---|--|--|--|
| 1906 | | | | | | | | |
| 19073 | 19067 19067 19067 19067 19067 19067 19067 19067 19067 | BIGB 09 1 BIGB 09 1 BIGB 09 1 BIGB 09 1 BIGB 09 1 BIGB 09 2 BIGB 09 2 BIGB 09 2 | 14 1653 15 1500 16 1923 17 2312 18 1645 21 2203 22 1910 23 1630 24 1715 | N14 E71 N13 E61 N13 E47 N14 E31 N15 E21 N16 W19 N15 W25 N15 W41 N15 W58 | | | 1400 1300 1500 1600 1600 1400 1500 1500 | |
| 19072 8168 | 19073 19073 19073 19073 19073 | BIGB 09 1 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 | 17 2312 18 1645 21 2203 22 1910 23 1630 24 1715 | S15 E60 S15 E52 S14 E08 S14 W03 S14 W14 S14 W28 | 09 22.5 09 22.6 09 22.6 09 22.6 09 22.6 09 22.6 09 22.6 | 1.0 1.5 2.0 1.0 1.5 1.0 | 0525 0850 0700 0550 0550 0450 | |
| 19080 | | | | S14 W79 | 09 22.8 09 22.9 | 3.5 3.0 | 1000 | |
| 19080 | 19072 19072 19072 19072 19072 19072 19072 19072 | BIGB 09 1 BIGB 09 1 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 | 2312 8 1645 21 2203 22 1910 23 1630 24 1715 25 1755 27 1804 | \$12 E79 \$10 E69 \$06 E60 \$07 E18 \$07 E06 \$07 W06 \$06 W20 \$07 W33 \$06 W60 \$06 W71 | 09 22.7 09 23.1 09 23.2 09 23.3 09 23.2 09 23.2 09 23.2 09 23.3 09 23.3 | 1.0 3.0 3.5 3.0 2.5 2.5 2.0 2.0 | 0300 1750 1900 1900 1850 1850 1650 1500 1500 | 4319 4319 4319 4319 4319 4319 4319 |
| 19080 | 19074 | BIGB 09 1 | 8 1645 | S08 E78 | 09 24.5 | 2.0 | 0200 | |
| 19075 B1GB 09 25 1755 S09 W07 09 25.2 2.5 1850 19075 B1GB 09 27 1804 S10 W35 09 25.1 2.0 1850 19075 B1GB 09 28 2041 S11 W47 09 25.3 2.5 1850 19078 B1GB 09 25 1755 N07 W04 09 25.4 1.5 0300 4325 19078 B1GB 09 21 2203 S17 E56 09 26.0 3.0 0900 4323A 19078 B1GB 09 22 1910 S16 E43 09 26.1 3.5 0850 4323A 19078 B1GB 09 24 1715 S16 E17 09 26.0 3.0 0850 4323A 19078 B1GB 09 27 1804 S16 W23 09 26.1 3.0 0850 4323A 19078 B1GB 09 22 </td <td>19080</td> <td>BIGB 09 2</td> <td>1715</td> <td>S17 E12 S17 W00</td> <td>09 24.6 09 24.7</td> <td>1.5 1.5</td> <td>0150 0200</td> <td></td> | 19080 | BIGB 09 2 | 1715 | S17 E12 S17 W00 | 09 24.6 09 24.7 | 1.5 1.5 | 0150 0200 | |
| 19078 BIGB 09 21 2203 S17 E56 09 26.2 3.0 0825 4323A 19078 BIGB 09 22 1910 S16 E43 09 26.0 3.0 0900 4323A 19078 BIGB 09 23 1630 S16 E32 09 26.1 3.5 0850 4323A 19078 BIGB 09 24 1715 S16 E17 09 26.0 3.0 0850 4323A 19078 BIGB 09 25 1755 S17 E05 09 26.1 3.0 0850 4323A 19078 BIGB 09 27 1804 S16 W23 09 26.0 3.0 0600 4323A 19078 BIGB 09 27 1804 S16 W35 09 26.2 2.5 0650 4323A 19078 BIGB 09 22 1910 S11 E50 09 26.2 2.5 0650 4323A <td< td=""><td>19075 19075 19075 19075 19075</td><td>BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2</td><td>1910 1630 14 1715 1755 17 1804</td><td>S11 E27 S08 E17 S08 E03 S09 W07 S10 W35</td><td>09 25.2 09 25.1</td><td>2.5</td><td>1900 2000 1850 1850 1850</td><td></td></td<> | 19075 19075 19075 19075 19075 | BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 | 1910 1630 14 1715 1755 17 1804 | S11 E27 S08 E17 S08 E03 S09 W07 S10 W35 | 09 25.2 09 25.1 | 2.5 | 1900 2000 1850 1850 1850 | |
| 19078 BIGB 09 22 1910 S16 E43 09 26.0 3.0 0900 4323A 19078 BIGB 09 23 1630 S16 E32 09 26.1 3.5 0850 4323A 19078 BIGB 09 24 1715 S16 E17 09 26.0 3.0 0850 4323A 19078 BIGB 09 25 1755 S17 E05 09 26.1 3.0 0850 4323A 19078 BIGB 09 27 1804 S16 W23 09 26.0 3.0 0600 4323A 19078 BIGB 09 28 2041 S16 W35 09 26.2 2.5 0650 4323A 19077 BIGB 09 21 2203 S11 E60 09 26.2 2.5 0650 4323A 19077 BIGB 09 22 1910 S11 E50 09 26.6 2.0 2000 19077 BIGB 09 23 1630 S11 E40 09 26.7 3.0 3000 19077 BIGB 09 24 1715 S11 E30 09 27.0 3.0 3000 19077 BIGB 09 25 1755 S14 E17 09 27.0 3.0 3000 19077 BIGB 09 27 1804 S14 W09 09 27.1 2.5 3000 19077 BIGB 09 28 2041 S14 W23 09 27.1 2.5 3000 19077 BIGB 09 28 2041 S14 W23 09 27.1 2.5 3000 19077 BIGB 09 28 2041 S14 W23 09 27.1 2.5 3000 19077 BIGB 09 28 2041 S14 W23 09 27.1 2.5 3000 19077 BIGB 10 02 1751 S16 W74 09 27.2 1.6 2490 | 19083 | BIGB 09 2 | 25 1755 | NO7 WO4 | 09 25.4 | 1.5 | 0300 | 4325 |
| 19077 BIGB 09 22 1910 S11 E50 09 26.6 2.0 2000 19077 BIGB 09 23 1630 S11 E40 09 26.7 3.0 3000 19077 BIGB 09 24 1715 S11 E30 09 27.0 3.0 3000 19077 BIGB 09 25 1755 S14 E17 09 27.0 3.0 3000 19077 BIGB 09 27 1804 S14 W09 09 27.1 2.5 3000 19077 BIGB 09 28 2041 S14 W23 09 27.1 2.5 3000 19077 BIGB 10 02 1751 S16 W74 09 27.2 1.6 2490 | 19078 19078 19078 19078 19078 | BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 | 1910 3 1630 4 1715 5 1755 7 1804 | S16 E43 S16 E32 S16 E17 S17 E05 S16 W23 | 09 26.0 09 26.1 09 26.0 09 26.1 09 26.0 | 3.0 3.5 3.0 3.0 3.0 | 0900 0850 0850 0850 0600 | 4323A 4323A 4323A 4323A 4323A |
| 19079 BIGB 09 21 2203 S20 E83 09 28.3 2.5 2000 4324 | 19077 19077 19077 19077 19077 19077 | BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 BIGB 09 2 | 2 1910 3 1630 4 1715 5 1755 7 1804 8 2041 | S11 E50 S11 E40 S11 E30 S14 E17 S14 W09 S14 W23 | 09 26.6 09 26.7 09 27.0 09 27.0 09 27.1 09 27.1 | 2.0 3.0 3.0 3.0 2.5 2.5 | 2000 3000 3000 3000 3000 3000 | |
| | 19079 | BIGB 09 2 | 1 2203 | S20 E83 | | 2.5 | | 4324 |

C A L C I U M P L A G E R E G I O N S (ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

| Calcium Plage Region | Sta | Ob: | serv. Day | ation Time (UT) | Lat | CMD | CI Mo | 1P Day | Intensity | Corrected Area (10-6 Hemi) | NOAA/USAF #1 | Sunspot #2 | Groups #3 |
|---|--|----------------------|----------------------------|--|--|--|----------------------------|--|--|--|--|---------------|--------------|
| 19079 19079 19079 19079 19079 19079 19079 | BIGB BIGB BIGB BIGB BIGB BIGB BIGB | 09 09 09 09 | 27 28 02 | 1910 1630 1715 1755 1804 2041 1751 1924 | S17 S20 S20 S20 S20 S22 | E68 E57 E48 E35 E08 W04 W55 W71 | 09 09 09 09 09 | 28.0 28.4 28.4 23.4 28.5 28.6 28.4 | 3.5 3.5 3.2 | 3100 3400 3300 | 4324 4324 4324 4324 4324 4324 | | |
| 19081 19081 19081 19081 19081 19081 19081 | BIGB BIGB BIGB BIGB BIGB BIGB | 10 | 25 27 28 02 | 1715 1755 1804 2041 1751 1924 1710 | N08 N08 N10 N10 N10 | E78 E70 E44 E30 W26 W40 W68 | 10 10 10 09 09 | 30.6 1.0 1.1 30.8 30.8 30.6 | 2.0 2.5 2.5 2.5 .7 1.0 1.2 | 1200 1800 1800 1700 0730 0679 0679 | 4324C 4324C 4324C 4324C 4324C | | |
| 19082 19082 19082 19082 19082 19082 19082 | BIGB BIGB BIGB BIGB BIGB BIGB | 09 09 | 25 27 28 02 03 | 1715 1755 1804 2041 1751 1924 1710 | S15 S16 S14 S16 S16 | E74 E65 E42 E27 W25 W40 W71 | 09 09 09 09 | 3C.3 30.7 30.9 30.9 30.8 30.8 | 2.5 2.5 3.0 3.0 .8 1.2 1.5 | 1100 1800 1600 1600 1193 0938 0718 | 4326 4326 4326 4326 4326 | | |

DAILY PLAGE SUMMARIES

| Day | Sta | Index | Count | Smallest Plage (Millionths | Plage of Solar | Area Hemisphere) | Smallest Intensity | Largest Intensity |
|----------------------------|--------------------------------------|--|-------------------------------|----------------------------------|--------------------------------------|---|--------------------------|---------------------------------|
| 01 02 03 04 05 | BIGB BIGB BIGB BIGB BIGB | 14.4 16.1 18.3 20.8 20.9 | 12 11 11 12 13 | 100 500 500 400 500 | 2000 2000 1800 1900 2700 | 10150 11400 13900 13500 13800 | 1.0 1.5 1.0 2.0 | 3.0 3.0 3.0 3.0 3.0 |
| 06 07 08 09 10 | .,, | 24.6 30.9 33.5 servati servati | OHO III. | o Duy | 2500 2600 2400 | 14550 16600 17075 | 1.0 1.0 1.0 | 3.0 3.5 3.5 |
| 11 12 13 14 15 | BIGB | servati 26.6 26.5 23.8 20.6 | 1.5 | 175 100 100 100 | 2400 2500 2350 2400 | 14175 16350 16875 14800 | 1.0 1.0 1.0 | 3.5 3.5 3.5 3.5 |
| 16 17 18 19 20 | BIGB No Ob | 15.7 18.0 18.1 servati servati | ons Thi | 200 s Day | 1700 1750 1900 | 12650 | 1.0 1.5 1.0 | 3.0 3.5 3.5 |
| 21 22 23 24 25 | BIGB BIGB BIGB BIGB | 18.6 21.1 26.3 29.5 33.1 | 11 10 10 12 12 | 525 550 150 200 200 | 2000 2500 3100 3400 3300 | 13650 13850 14550 16800 17550 | 1.0 1.0 1.0 1.0 | 3.5 3.5 3.5 4.0 4.0 |
| 26 27 28 29 30 | BIGB BIGB No Ob No Ob | 31.8 servati servati | 9 10 ons Thi ons Thi | 150 300 s Day s Day | 3500 | 14600 16400 | 2.0 | 3.5 3.5 |



BIG BEAR SOLAR OBSERVATORY ACTIVE REGION SUMMARY SEPTEMBER 1983

| REGION | IDENTIFICATION | AGE | FIRST SEEN | DURATION |
|---------------------------------|------------------------------------|------------------|--|---------------------------------|
| 19042 050 043 044 | 19007 New New New | 2 1 1 | 830829 830901 830830 830901 | 03 days >09 >10 >09 |
| 047 | New | <u>i</u> | 830902 | 13 |
| 053 | New | 1 | 830908 | 07 |
| 048 | 19015 | 2 | 830902 | 14 |
| 049 | 19014 | 2 | 830903 | 13 |
| 054 | New | 1 | 830908 | >01 |
| 051 | 19016 | 2 | 830904 | >12 |
| 052 | New | 1 | 830904 | >12 |
| 055 | New | 1 | 830906 | >10 |
| 056 | New (vic. of 19017) | 1 | 830905 | >13 |
| 057 | 19019 | 3 | 830905 | >13 |
| 071 | New | 1 | 830912 | >02 |
| 058 | 19018 | 2 | 830907 | >11 |
| 061 | New | 1 | 830913 | 07 |
| 069 | New | 1 | 830915 | 02 |
| 070 | New | 1 | 830915 | 01 |
| 059 | 19023 | 2 | 830907 | 15 |
| 062 063 060 064 065 | New New New 19025 New | 1 1 1 3 | 830913 830913 830912 830912 830912 | 01 >06 >04 >07 >11 |
| 076 | New | 1 | 830921 | >05 |
| 066 | New | 1 | 830913 | 02 |
| 067 | 19030 | 2 | 830913 | >13 |
| 068 | 19031 | 7 | 830914 | >12 |
| 073 | 19032 | 2 | 830916 | >10 |
| 084 | New | 1 | 830927 | >02 |
| 072 | 19046 | 2 | 830916 | >13 |
| 074 | New | 1 | 830918 | >01 |
| 080 | New | 1 | 830923 | >03 |
| 075 | 19034 | 3 | 830921 | >08 |
| 083 078 077 079 | New 19045 19036/19041 New | 1 2 5 1 | 830925 830921 830921 030921 | >01 >08 >08 >08 >08 |

No CaK Observations at BBSO on Sept. 1, 2, 9-11, 13, 15, 19, 20, 22-26, 29, 30.

^{2.} No CaK Prints on Sept. 9-11, 19, 20, 26, 29, 30.

No KPNO Magnetograms on Sept. 2, 4, 6, 7, 10-12, 16, 18, 29, 30.

^{4.} Contiguous Plages: 19034/19036/19039/19041/19045, 19048/19049, 19057/19058, 19068/19073, 19075/19077/19080.

^{5.} Mt. Wilson CaK Prints were used on Sept. 1, 2, 13, 15, 2-25.

